

Aldel Education Trust's St. John College of Engineering & Management



(A Christain Religious Minority Institution)

Approved by AICTE, Recognised by DTE and affiliated to the University of Mumbai , MSBTE

NAAC Accredited with Grade 'A' (2017-2022)



CHRONICLES OF TECHIES

Vol. 02 | Issue no. 01

A.Y. 2019-2020

September 2020



**DEPARTMENT OF
COMPUTER ENGINEERING**

ST. JOHN TECHNICAL & EDUCATIONAL COMPLEX,
VILLAGE VEVOOR, MANOR ROAD, PALGHAR
EAST, PALGHAR—401404

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From left to right :-

Mr. Sunny Sall
 Dr. Rahul Khokale
 Dr. G.V. Mulgund [Principal]
 Ms. Tina D'abreo
 Mrs. Vidya Kawtikwar
 Mrs. Angelin Florence A
 Ms. Nancy Nadar
 Ms. Shraddha Dabhade
 Mr. Chetan Patil
 Mr. Ajay Sirsat
 Mr. Vivian Lobo
 Mr. Siddhesh Bhagat
 Mrs. Rashmi Bhat
 Mrs. Prajkta Akre
 Mrs. Aditi Raut



PILLARS OF OUR DEPARTMENT

The department was established in 2008 with an intake of 60, and subsequently, it was increased to 120 in 2010. It is one of the leading departments on campus. The department strives its best to provide high-quality education to students so that students – when graduated – can compete globally meeting industry expectations and standards, possess the vision to become a successful entrepreneur, or take research as a profession. All these three potentials are aligned with the department's vision and mission, and if need be, they are appropriately revised in Departmental Advisory Board (DAB) meetings so that the department remains at par with contemporary technological trends. Moreover, the department adopts various teaching-learning methods such as flipped classroom, blended learning, amongst others so that students can have an excellent learning experience. The department has 8 well-equipped laboratories such as programming lab, networking lab, cloud computing lab, security lab, software engineering lab, DBMS lab, amongst others, with licensed software and internet connectivity that helps students in performing their experiments/assignments/project work/research efficaciously. Till date, the departmental library has a total of 119 books comprising disciplines like data structures and algorithms, object-oriented programming, discrete structures and graph theory, computer graphics, operating system, electronic devices and circuits, microprocessors and microcontrollers, computer networks, software engineering, project management, artificial intelligence, machine learning, virtual reality, cloud computing, cyber security, data mining, image processing, etc., which acts as a source of true knowledge/reference/guide to faculty members and students. E-books of the above-mentioned disciplines are also available in the departmental library. The department has active institute-level student chapters, i.e., Computer Society of India (CSI) and Indian Society for Technical Education (ISTE) that organize several workshops and hands-on sessions by industry experts for the benefit and knowledge upgradation of students. The department promotes collaborative learning that helps students to learn from their peers. The department has endeavoured to provide consistent results academically and has been successful too. The placement records of the department are phenomenal. On the whole, the department offers an all-round knowledge and brings a holistic growth for students.

VISION

To be a department committed to develop capable and efficient Computer Engineering graduates with an aptitude for research and leadership qualities.

MISSION

- 1) To inculcate a habit of lifelong learning to become globally competent Computer Engineering graduates.
- 2) To promote excellence by encouraging creativity, critical thinking, and discipline.
- 3) To establish relationships with other institutes as well as industries to have collaborative learning.



Mr. Albert W. D'Souza
Chairman
Adel Education Trust (AET)

Chairman's Message

I am happy to see the second edition of the newsletter of Computer Engineering Department under Engineering section of St. John College of Engineering and Management, Palghar.

The newsletter is a communication medium for all students, staff, parents and friends to know the recent activities and developments that are taking place at department level.

I congratulate the HOD, staff, students and the editorial team for coming up with this new issue of the newsletter for the department.

At St. John, we remain committed to give very best to the students under our assistance. I want to extend my heartfelt gratitude to all the parents, students, stakeholders who have put their trust in us and been a part of this wonderful journey of St. John Technical Campus.

Let's come together to work with the vision of trust "Excellence in Serving to Educate and Educating to Serve".

AET's Member Message

2020 is turning out to be an astonishing year, it feels like this year will be 730 days long. The whole world has turned on its head because one man decided to have some bat soup. Who said that one man couldn't change the world?

Out of this crisis though, so many opportunities have arisen. Everybody has migrated en masse online – E-commerce portals are enjoying their best results, small businesses have all created websites to offer their products and services, schools and colleges have all moved to online teaching methods. And this seems to be the new "Normal". The convenience of work from home (WFH) has been highly appreciated by most people. Companies that invested crores in office space are finding it cheaper to give their employees a laptop and ask them to work remotely. Clients are questioning the need of some of their projects altogether. The might of remote operations is clearly showing and is here to stay.

This brings a lot of good news for our students. Many of our B.E. students already have job offers in their hands, but the one who haven't, here's a golden opportunity. Suddenly, everyone needs system analysts to make sure their IT services are configured correctly and working 24/7. Many companies operating in analogue mode have felt the need to go digital immediately.

While this newsletter covers all the activities of the department, I am proud to announce our tie up with Coursera to offer over 3500 courses to all our students free of cost. Students are encouraged to take up courses of their choice and complete their certification when possible. Teaching has also begun online for students of S.E., T.E., and B.E through the implementation of G-suite.

I congratulate on bringing out this issue, and I look forward to seeing many more of the same.



Mr. Aldridge D'Souza
Member
Adel Education Trust (AET)

HOD's Message



Dr. Rahul S. Khokale
Professor and HOD
Computer Engg. Department

It gives me prodigious gratification together with the sense of belongingness and accomplishment to present the second issue of our departmental newsletter "Chronicles of Techies". This newsletter is a platform by which we can disseminate information about the happenings in the department. A newsletter reveals the efforts and contributions of various stakeholders of the department. The matter is presented in a lucid form and covers all the relevant information related to vision, mission, and quality policies. This newsletter mainly emphasises on student's activities, student's publications, students' achievements, faculty publications, faculty achievements, etc. I hope this edition induces an encouraging reaction from all its readers. I congratulate the entire newsletter team for their endeavour of publishing this issue.

Principal's Message



Dr. G. V. Mulgund
Principal

“

Dear students and faculty members,

The year began on a note of hope and fulfilment with the celebration of sports week, annual social gathering, and science fest. We celebrated the institute's technical event, i.e., Megaleio, and the first-ever 24-hour hackathon (i.e., MegaHack) with a grand success. We celebrated the 71st Republic Day with all grandeur and responsibility, making "Clean & No Plastic" as its theme. Furthermore, in academics and research, various departments organized expert lectures, published research papers, and several faculty members were invited as experts/resource persons. The progress of St. John College of Engineering and Management's STEP activity cell was rewarding in itself and provided the right amount of encouragement to do better. The first three months were eventful in all senses as we witnessed many fests and equally overwhelming responses. Our students did well in hackathons and other technical as well non-technical events organised at various places. By the mid of March 2020, we were face to face with COVID-19 pandemic. This has come as a sudden challenge for all of us. Faculty members as well as students faced academic challenges, and with the need and novel thoughts and perspective, faculty members conducted online classes and ensured no academic loss of students with limited resources from their home. I thank all faculty members, students, and parents for co-operating with the institute. The uncertainty continued, and the department took the initiative of a 5-day webinar series on Recent Trends and Development and a 1-day webinar on "Gateway to Cyber Security" in May and June 2020, respectively, proving that we can encounter challenges with everyone's cooperation. Kudos and Congratulations to everyone. I am sure that we all will come through this together with a lot of new lessons learnt. I hope we work with more energy and channelize efforts during this time and round the year to create a better year for us as well as for students.

”

Editors-in-Chief Message

“

Hello Readers,

Hope you all are doing well and taking good care of yourselves during this COVID-19 pandemic... We, Mr. Vivian Lobo and Mrs. Angelin Florence A, feel privileged to present before you SJCEM's Department of Computer Engineering's Newsletter (vol. 02 | no. 01) for A.Y. 2019-2020, which now has an official logo and name titled "Chronicles of Techies". An online contest was held amongst students of S.E., T.E., and B.E. to acquire an apt title for the newsletter. After a comprehensive brainstorming session from the received responses between faculty members and student editorial team members, we came to a conclusion that the abovementioned title suits the most. There is a profound meaning hidden in the newsletter's title. The two words Chronicles and Techies hold prodigious significance. "Chronicle" means a truthful written account of important or bygone events in the order of their occurrence and a "techie" means a person who is an expert in or enthusiastic about technology, especially computers and programming. Ours is the department filled with a plethora of splendid events that have taken place, and as the department name suggests (i.e., computer), we have a bunch of technology enthusiasts (i.e., our own students) or we can simply say that we have technology geeks in the department who are always keen to learn new skills and keep themselves updated with latest technologies. So, we decided to unite both these words, and hence, this name...!!!

The newsletter comprises several interesting reads and happy and proud moments, which we feel that you all will love reading. It begins with a crisp overview of the department followed by the vision, mission, and the photograph of the strong pillars of the department (i.e., our dearest faculty members).

The newsletter includes the message of the visionary of this institute and the chairman of Aldel Education Trust, i.e., Mr. Albert W. D'Souza sir. It also covers the messages of Mr. Aldridge D'Souza sir, Member, Aldel Education Trust, Dr. G. V. Mulgund, Principal SJCEM, and Dr. Rahul Khokale, HOD.

The newsletter focuses on departmental activities, CSI and ISTE events, faculty and student achievements, research and paper publications, placement details, IV details, alumni speaks, co-curricular, and extra-curricular activities...!!!

We have tried our best to capture each and every event that has taken place in the A.Y. 2019-2020. Without the constant guidance of our HOD, timely support of the faculty members, and the voluntary efforts taken up by the students, launching this newsletter would seem impossible...!!!

We sincerely hope that by reading the success stories in Chronicles of Techies, we could inspire other fellow budding engineers to open up for their upcoming opportunities.

Wishing you all triumph and a great academic year ahead.

”



Mr. Vivian Lobo
Assistant Professor



Mrs. Angelin Florence A
Assistant Professor



Editorial Team Members



Hello all tech-savvy folks!

Greetings from the editing team!

With utmost enthusiasm, we present you all the 2nd edition of the newsletter of our very own Computer Engineering Department, "Chronicles of Techies". Remembered the movie, Chronicles of Narnia? Well, so did we! But guess what, the happenings in our department and the milestones that we have achieved, are no less than a Chronicle!!

Hence the name, "CHRONICLES OF TECHIES"

The idea of having a newsletter emerged during this lockdown period amongst some of the creative minds of our department; so, the "output", which you see, is the intelligence of those creative minds. We have made sure to include each and every activity that has taken place during the academic year 2019-20, activities related to both students as well as faculties. And again, the achievements and feats, which all add up to our Hall of Fame, we made sure not to miss on those as well! And yet again, to quote Oscar Wilde, "The function of the artist is to invent, not to chronicle" keeping up to this, we have shared the expertise of our students from B.E. by displaying the best of their projects as well as messages from the alumni, which will indeed be a source of inspiration for the upcoming batches. This newsletter has carried every update from the department, right from the Chairman, Principal, and HOD, also placement details, making it wholesome in its own way. And yes, even though it's titled "Chronicles of Techies" we have included non-technical (i.e., extra-curricular) talents of our students too because our team believes that every talent is a result of hard work, and hard work has to be recognized for an individual's upliftment.

So, we hope you all remain safe and sound in your houses as you enjoy scrolling through this catchy and informative newsletter. Last but not the least, we thank our dear Chairman sir, Principal sir, HOD sir, and the faculty members of Compute Engineering Department for their support, guidance, and motivation for successfully compiling Chronicles of Techies.

Happy scrolling!

COMPUTER ENGINEERING DEPARTMENT'S LOGO DESIGNER



Mr. Abhishek A. Gupta
S.E. Comp. Engg.

Keep up the creativity alive in you always...

WINNER OF THE NEWSLETTER'S TITLE



Ms. Diana Fernandes
S.E. Comp. Engg.

Keep up the passion for innovative thinking alive in you always...

NEWLY APPOINTED FACULTIES IN THE DEPARTMENT FOR A.Y. 2020–21



Ms. Sana Ansari
Assistant Professor



Mrs. Jisha Tinsu
Assistant Professor



The 1st Departmental Advisory Board (DAB) for the A.Y. 2019-2020 was held on August 07, 2019. Distinguished guests for the meeting were Dr. Rajesh Bansode, Professor and Head, Thakur College of Engineering and Technology, Mumbai, Mr. Krishnakant Mane, Entrepreneur and Industry Expert, Mr. Abhishek Mishra, SJCEM Alumnus, Mr. Abdur Rehman, SJCEM Alumnus and Entrepreneur, and Ms. Shraddhali Patil, SJCEM Alumnus, amongst others.



Dr. Rahul Khokale and Mr. Vivian Lobo along with Dr. G. V. Mulgund, Principal SJCEM and other faculty members visited Raw Engineering Pvt. Ltd, Virar on January 30, 2020 to discuss about the implications of industry-academia interaction for effective learning process and skill development.



The 2nd Departmental Advisory Board (DAB) for the A.Y. 2019-2020 was held on March 07, 2020. Distinguished guests for the meeting were Dr. Rajesh Bansode, Professor and Head, Thakur College of Engineering and Technology, Mumbai, Dr. S. B. Wankhade, Professor and Head, Rajiv Gandhi Institute of Technology, Mumbai, and Mr. Rehman Deraiya, CTO, Bitmanity, SJCEM Alumnus, amongst others.



Dr. Rahul Khokale presenting before DAB members



Dr. G.V. Mulgund strengthening the bond with RAW Engineering Pvt. Ltd.



DAB members keenly listening to the presentation



Student feedback taken at the end of the DAB meeting

"5-Day Webinar Series" - May 24 to 28, 2020
Mode of Conduction :- Zoom application and YouTube

Webinar on IoT for Music Therapy

24th May, 2020
 09:00 am to 10:30 am



MR. YOGESH PINGLE
 Assistant Professor
 Vidya Vardhini College of Engineering and Technology, Vasai

Day 1 :- Session 1

Feedback from participants

Glimpse of session

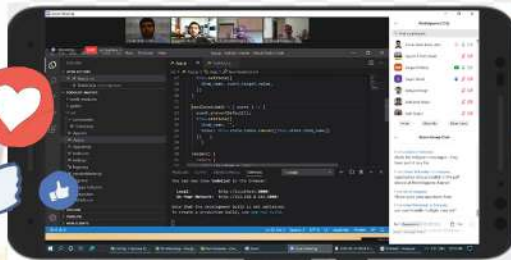


CHRONICLES OF TECHIES

Feedback from participants



Glimpse of session



Webinar on React (Web Development)

24th May, 2020
 10:45am to 12:15pm

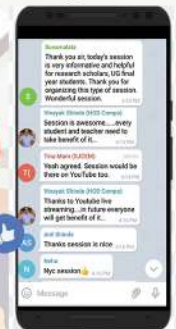
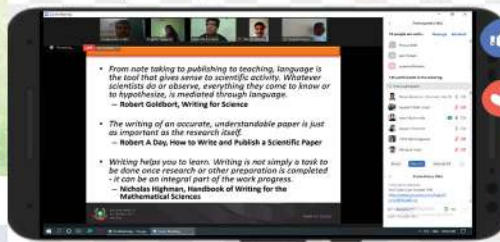


MR. SWAPNIL MISTRY
 Full Stack Developer,
 Cimpress, Mumbai

Day 1 :- Session 2

Feedback from participants

Glimpse of session



Webinar on Research Paper Writing

25th May, 2020
 03:00pm to 04:00pm



DR. A. Y. DESHMUKH
 Principal, NIT Nagpur

Day 2

Feedback from participants

Glimpse of session



Webinar on Code Quality - Impact on Project Health & Business Prospects

26th May, 2020
 11:00am to 12:00pm



MR. GAJANAN PATURDE
 TCS, Pune

Day 3

"If a window of opportunity appears, don't pull down the shade."
 ~Tom Peters

Day 4

Aidel Education Trust's
St. John College of Engineering and Management
Palghar (East), Palghar District - 402404, Maharashtra
NAAC Accredited with Grade 'A'
DEPARTMENT OF COMPUTER ENGINEERING
presents
Webinar on Program Analysis & Testing
27th May, 2020
02:00pm to 03:30pm
DR. SANGHRATNA GODBOLEY
Sr. Research Associate,
National University of Singapore

Glimpse of session

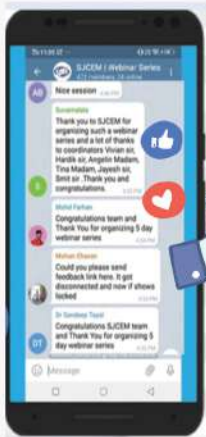


Feedback from participants



CHRONICLES OF TECHIES

Feedback from participants



Glimpse of session



Day 5

Aidel Education Trust's
St. John College of Engineering and Management
Palghar (East), Palghar District - 402404, Maharashtra
NAAC Accredited with Grade 'A'
DEPARTMENT OF COMPUTER ENGINEERING
presents
Webinar on Next-Generation Computing
28th May, 2020
03:00pm to 04:30pm
MR. ANIKET MHALA
Global Technology Practice Head - Agile, DevOps, Microservices & Cloud at Oracle

One-day Webinar Webinar topic: Gateway to Cyber Security Online Platform ZOOM & Youtube Live

Speaker: Mrs. Savita Dhadwal

Feedback from participants

Aidel Education Trust's
St. John College of Engineering and Management
Palghar (East), Palghar District - 402404, Maharashtra
NAAC Accredited with Grade 'A'
DEPARTMENT OF COMPUTER ENGINEERING
presents
Webinar on Gateway to Cyber Security
03rd June, 2020
11:00am to 1:00pm
MRS. SAVITA DHADWAL
Sr. Research Associate,
National University of Singapore

Glimpse of session



"Opportunities are like sunrises. If you wait too long, you miss them."
~William Arthur Ward

Computer Society of India (CSI)

SEMINAR NO. : 01
SEMINAR TOPIC : Blockchain Technology
DATE : 14th February, 2020
VENUE : MMS Hall, Third Floor, SJCEM
TIME : 10:40 a.m. to 12:40 p.m.



Resource Persons:

- Mr. Deepak Shakyavanshi**
 - B.E. in Computer Engineering from Mumbai University
- Mr. Anil Shakyavanshi**
 - Recently joined the team of Techno Code LLP
 - Previously he was an Executive officer in MJP in Maharashtra Government
 - With his experience he is guiding the team to improve chain of commands and day-to-day functions

Participants Count : S.E. and T.E. students of Computer Engineering and Information Technology Departments (180)

Glimpses of the Seminar



Starting from left: Mr. Deepak Shakyavanshi (Resource Person), Mr. Anil Shakyavanshi (Resource Person), Dr. G. V. Mulgund (Principal), Dr. Rahul Khokale (HOD – Computer Engg.) and Mrs. Rashmi Bhat, Mrs. Aditi Raut, Mrs. Vidya K., Mr. Vivian Lobo, Mrs. Manali Patekar, Ms. Shraddha D. and Mr. Sunny Sall (faculty members of Computer Engg.).



Mr. Deepak Shakyavanshi sharing his knowledge and interacting with students during the session.



Mr. Deepak Shakyavanshi answering students' questions and giving insights about blockchain technology



Organising committee members (faculty and students)

Mr. Vivian Lobo, Mrs. Angelin Florence A, and Ms. Tina D'abreo successfully organized a "5-Day Webinar Series" at St. John College of Engineering and Management, Palghar from May 24 to 28, 2020.

Mrs. Manali Patekar successfully organized a 1-Day Webinar on "Gateway to Cyber Security" at St. John College of Engineering and Management, Palghar on June 03, 2020.

Dr. Rahul Khokale successfully conducted a session on "Classroom Monitoring" for a Faculty Development Program titled E-Teaching and Learning at St. John Technical and Educational Campus (SJTEC) on June 23, 2020.

Mr. Vivian Lobo was invited as one of the resource persons for a Machine Learning Workshop at St. Francis Institute of Technology (SFIT), Mumbai who successfully conducted an on-line 3-hour hands-on session on "Classification using Gaussian Naïve Bayes and Support Vector Machine" on July 09, 2020.

Mr. Ajay Sirsat judged a state-level paper presentation competition at Jawahar Navodaya Vidyalaya, Palghar on July 26, 2019.

Minor Research Grant Projects approved from University of Mumbai

Principal Investigator	Co-Investigator	Project Title	Sanctioned Amount
Dr. Rahul Khokale		Steady State Visually Evoked Potential (SSVEP)-based Wheelchair	25000/-
Mr. Ajay Sirsat	Ms. Nancy Nadar	Virtual and Augmented Reality in Engineering and Construction	15000/-

For More:-



Dr. Rahul Khokale | Professor and Head

- 1.Cyber Security and Cyber Forensics
- 2.Webinar Series (06 sessions)

Dr. Kiran Bhandari | Professor

1. Faculty Program on NBA
- 2.Holistic Development during Pandemic 2020: Fight for Future

Mr. Sunny Sall | Assistant Professor

- 1.Natural Language Processing (NLP): Theory and Practice
- 2.Opportunities and Challenges in Electronics and Allied Industries in INDIA post COVID-19

Ms. Tina D'abreo | Assistant Professor

- 1.Perspectives on Data Analytics with Advances in Software Engg.
- 2.Python Programming: Spoken Tutorial, IIT Bombay

Mrs. Aditi Raut | Assistant Professor

- 1.Webinar Series (06 sessions)
- 2.Gateway to Cyber Security

Mrs. Vidya N. Kawtikwar | Assistant Professor

- 1.Python 3.4.3
- 2.Disruptive Technologies of Industry 4.0

Mrs. Manali Patekar | Assistant Professor

- 1.Cloud Computing
- 2.Innovative Trends in Engineering and Technology

Mr. Ajay Sirsat | Assistant Professor

- 1.BOSS Linux 3.4.2 Operating System
- 2.Microsoft Innovative Educator Program

Mrs. Angelin Florence A | Assistant Professor

- 1.R Programming
- 2.Data Science

Mr. Vivian Lobo | Assistant Professor

- 1.Machine Learning and Deep Learning Applications in Engineering and Science
- 2.Blockchain

Mrs. Rashmi Bhat | Assistant Professor

- 1.Gateway to Cyber Security
- 2.PHP and MySQL

Ms. Nancy Nadar | Assistant Professor

- 1.Python
2. Python for Data Science

Ms. Snehal D'mello | Assistant Professor

- 1.C and C++
- 2.Data Science

Ms. Shraddha Dabhade | Assistant Professor

- 1.BOSS Linux 3.4.2 Operating System
- 2.Research, Funding Project and IPR

Mr. Anas Dange | Assistant Professor

- 1.Webinar Series (06 sessions)
- 2.Gateway to Cyber Security

Dr. Rahul Khokale, Nileshsingh V. Thakur, Mahendra Makesar, and Nitin A. Koli. "Information Retrieval Using Latent Semantic Analysis," *In Smart Trends in Computing and Communications*, pp. 393-404. Springer, Singapore, 2020, DOI:10.1007/978-981-15-0077-0_40

Nupur Deshmukh, Rohit Kahar, Dipti Pangam, Vivian Brian Lobo, and Dr. Rahul Khokale, "Intelligent Essay Scrutinizing System", *International Conference on Intelligent Computing and Networking (IC-ICN 2020)*, MULTICON 2020, TCET, February 28-29, 2020.

Sunny B. Sall and Dr. Rajesh Bansode, "Secure Data Aggregation and Data Transmission Using HMAC Protocol in a Cluster base Wireless Sensor Network," *International Conference on Intelligent Computing and Networking (IC-ICN 2020)*, MULTICON 2020, TCET, February 28-29, 2020 (Accepted for Springer Publication).

Altaf Shaikh, Pratiksha Shetty, Achal Vartak, and Manali Patekar, "Art Market Reformation using Blockchain", *International Journal of Scientific Research and Engineering Development (IJSRED)*, vol. 03, no. 3, April 2020.

Vivian Brian Lobo, Jetso Analin, Ronald Melwin Laban, and Shraddha S. More. "Convergence of Blockchain and Artificial Intelligence to Decentralize Healthcare Systems," *In 2020 Fourth International Conference on Computing Methodologies and Communication (ICCMC)*, pp. 925-931. IEEE, 2020. DOI: 10.1109/ICCMC48092.2020.ICCMC-000171

Nazneen Ansari, Vivian Brian Lobo, Hycinta Andrat, and Vaibhav Narawade. "Improving Computer Games Marketing Using Classification," *Studies in Indian Place Names (SIPN) (UGC CARE Journal)*, 40, no. 68: 447-452, March 30, 2020.

Vennis Shah, Karnika Padia, and Vivian Brian Lobo. "Application of Blockchain Technology in Civil Registration Systems." *In IC-BCT 2019*, pp. 191-204. Springer, Singapore, 2020. DOI: 10.1007/978-981-15-4542-9_16

Shraddha More, Vivian Brian Lobo, Ronald Melwin Laban, Simran Panchal, Monika Patil, Gulshan Pathak, "Cancer Prediction and Insurance Eligibility using Machine Learning Techniques," *5th International Conference on Communication and Electronics Systems (ICCES 2020)*, IEEE, pp. 729-734, June 10-12, 2020.

Arbaz Khan, Rishabh Bhatnagar, Vinit Masrani, Vivian Brian Lobo, "A Comparative Study on Solar Power Forecasting using Ensemble Learning," *4th International Conference on Trends in Electronics and Informatics (ICOEI 2020)*, IEEE, pp. 217-223, June 15-17, 2020.



Final Year

Mr. Altaf U. Shaikh

- Web Development Team Leader
- Event Coordinator
- Google Crowdsourc Top Contributor

Final Year

Mr. Smit P. Jethwa

- Received a badge of "Google's Product Experts Program" for contributing to Google Assistant.
- Speaker at Google's DevFest, Hubli 2019

Final Year

Mr. Dheeraj R.Dubey

- Certification head in Megaleio 2020
- Gold in 1500 mt race and relay race -District level for consecutive 3 years.

Third Year

Mr. Aditya T. Chakravarty

- 25th Rank on National Engineering Olympiad(NEO).
- Member of the IEEE Organization.
- Volunteer of Samagra Foundation.

Third Year

Ms. Sayali M. Ghadi

- Prize of Programming Hub Hackathon in Pillai College
- Code Breaking 2nd rank in Atharva College of Engineering (ACE), Malad.

Third Year

Mr. Nischay K. Wade

- Winner of MegaHack 2020 along with :-
- 1) *Mr. Abhishek Tiwary - T.E.*
- 2) *Mr. Aniruddha Tayade - T.E.*
- First in Enthusia 2020 Web Development Competition

Third Year

Mr. Kanishk A. Singh

- Special Prize Winner (R Programming), MegaHack 2020 along with :-
- 1) *Mr. Abhishek Bhanushali - B.E.*
- 2) *Mr. Roshan Gupta - T.E.*

Third Year

Ms. Shruti S. Gupta

- 2nd prize in Blind C event in Megaleio 2020 held in SJCEM
- 2nd Rank in Caricature Competition held in SJCEM

Second Year

Mr. Pratik R. Pathak

- Earned the title "Database Specialist" from Oracle.
- Hosted Machine learning Workshop at Vidyavardhini's College of Engineering, Vasai East.

Second Year

Ms. Diana C. Fernandes

- 2nd Prize: Elocution Competition - Mumbai University in Palghar district
- Top 20 in Speak for India organized by Federal Bank, TOI, Maharashtra Times.

Second Year

Mr. Vivek D. Hariyan

- Top 3 in Bandra 10K Madat Marathon
- Runner up in Adidas Uprising Marathon
- Top 10 In ICT Marathon

Second Year

Ms. Shirley Pereira

- 3rd Price Winner at Universal Hackathon (HackStomp)

For More :-




Mr. Onkar H. Sardesai

Final Year

- o Coursera with IBM - IBM Data Science Professional Certificate
- o Coursera with Yale University - Financial Markets with honors

Mr. Aditya T. Chakravarty

Third Year

- o UdemY-The Complete Web Development Bootcamp.
- o Skillzcafe-Introduction to Data Science.
- o Microsoft-Understanding Machine Learning with Python.
- o SJCEM -Introduction to REACT (Web Development).
- o Atharva College of Engineering- 3 Days Online Workshop on Education of Programming 4.0

Ms. Gargi K. Kulkarni

Second Year

- o Coursera - Python Data Structures
- o Coursera - Capstone: Retrieving, Processing, And Visualizing Data with Python
- o Coursera - AI for Everybody

Ms. Sannidhi Shetty

Second Year

- Tech Cryptos - Machine Learning Workshop
- IBM Cognitive Class - Data Science Course
- IBM Cognitive Class - Machine Learning Course
- Coursera - Responsive Website Design with HTML, CSS, JavaScript

Mr. Altaf U. Shaikh

Final Year

- o Progate - Web Development Path (Node.js)
- o Coursera - Front-End Web UI Frameworks and Tools: Bootstrap 4
- o Data Camp - Introduction to Bash Scripting
- o Data Camp - Introduction to Shell

Ms. Sanjana S. Dalvi

Third Year

- o Accenture - Digital Skills : User Experience (UX)
- o JPMorgan Chase & Co. - Software Engineering Virtual Experience
- o UdemY - Java For Everyone - Zero to Hero
- o UdemY - Ultimate Google Cloud Certifications
- o UdemY - The Smart Guide to Make a Website on WordPress from Scratch

Mr. Rahul Rane

Second Year

- o Coursera - UI/UX Designing Specialization
- o Coursera - Visual Elements of UI Design
- o Coursera - Web Design: Strategy and Information Architecture

Ms. Gayatri K. Kulkarni

Second Year

- o Coursera - Python Data Structures
- o Coursera - Capstone: Retrieving, Processing, And Visualizing Data with Python
- o Coursera - AI for Everybody

Mr. Dheeraj R. Dubey

Final Year

- o UdemY- Ultimate Google Cloud Certifications: All in one Bundle (4).
- o UdemY- "*NEW* AWS Certified Solutions Architect - Associate 2020".
- o Google- Digital marketing

Mr. Saurabh Nishad

Third Year

- o UdemY - The Complete Python Course: Go From Beginner To Advanced.
- o Coursera - Python for everybody

Mr. Saurav Waghade

Third Year

- o NPTEL - Ethical Hacking
- o UdemY - Web Development From Scratch
- o Aptech - Python For Data Analytics
- o UdemY - Automate The Boring Stuff With Python
- o TCS ION - Career Edge Knockdown The Lockdown

Mr. Vivek D. Hariyan

Second Year

- o Coursera - Getting Started with Python
- o Coursera - C++ for C Programmers
- o Google - Fundamentals of Digital Marketing
- o UdemY - Python Programming for Beginners in Data Science
- o ISTE - Cisco Netacad: National Level Codathon 2020

Ms. Aachal A. Vartak

Final Year

- o Coursera - Front-End Web UI Frameworks and Tools : Bootstrap.
- o Progate - Git Learning Challenge

Mr. Jayesh R. Patil

Third Year

- o ICSI - CNSS Certified Network Security Specialist
- o Coursera-Testing and Debugging Python
- o SkillUp Online- Foundational Artificial Intelligence
- o GUVI- Game development Using PyGame
- o GUVI- Step into Robotics Process Automation
- o Cognitive_Class-IBM Blockchain Foundation Developer

Ms. Chaitali S. Rajhans

Second Year

- o Coursera - Introduction to HTML5
- o Coursera - What is Data Science?
- o Coursera - AI for Everyone
- o Coursera - Think Again I: How to Understand Arguments
- o WHO - Standard Precautions: Hand Hygiene

Mr. Pratik R. Pathak

Second Year

- o Certified Microsoft Innovator Educator: The Science of Gaming
- o IBM: Docker Essentials
- o IBM: Python for Data Science

Mr. Neel V. Wadekar

Third Year

- o BCG - Strategy Consulting Virtual Experience Program
- o Zerodha Varsity - Stock Market Basics

Ms. Nandini D. Patil

Third Year

- o Coursera - Python for Everybody Specialization
- o UdemY - Complete SQL Bootcamp with MySQL, PHP & Python
- o Cisco_ISTE_National_CODATHON-2020 - Programming Essentials in Python

Mr. Dhaval S. Walavalkar

Third Year

- o UdemY - Complete Python 3 Masterclass Journey.
- o UdemY - User Experience Design Essentials - Adobe XD UI UX Design.
- o UdemY - Adobe Illustrator CC - Essentials Training Course.

Ms. Nidhi N. Agrawal

Second Year

- Sololearn - Python
- Sololearn - PHP
- NPTEL - Programming in Python

For More :-



S.E.

1st
Pratiksha Laldas
CGPA : 9.85

2nd
Sohanlal Choudhary
CGPA : 9.85

3rd
Praveen Chavan
CGPA : 9.69

T.E.

1st
Rohini Singh
CGPA : 9.26

2nd
Shreya Patil
CGPA : 9.11

3rd
Devika Babrekar
CGPA : 8.96

B.E.

1st
Ankita Singh
CGPA : 9.38

2nd
Anurag Gupta
CGPA : 9.15

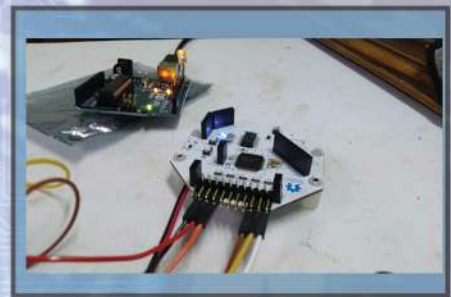
3rd
Pratiksha Shetty
CGPA : 9.12



Top 3 B.E Projects of the A.Y. 2019-2020

1 **Title: Steady State Visually Evoked Potential (SSVEP)-based Wheelchair** **Students: Mr. Abhishek Bhanushali, Mr. Smit Jethwa, and Mr. Hiten Patel** **Guide: Dr. Rahul Khokale**

Brain-computer interface (BCI) paradigms are usually tested when environmental and biological artifacts are intentionally avoided. In this study, the project deliberately introduced different perturbations in order to test the robustness of a steady state visual evoked potential (SSVEP)- based BCI. Specifically, the authors investigated to what extent a drop in performance is related to the degraded quality of EEG signals or rather due to increased cognitive load. In the online tasks, subjects focused on one of the four circles and gave feedback on the correctness of the classification under four conditions randomized across subject: control (no perturbation), speaking (counting loudly and repeatedly from one to ten), thinking (mentally counting repeatedly from one to ten), and listening (listening to verbal counting from one to ten). Decision tree, Naive Bayes, and K-nearest Neighbor classifiers were used to evaluate the classification performance using features generated by canonical correlation analysis. During the listening condition, relative alpha power in a broad area including central and temporal regions primarily over the left hemisphere correlated negatively with the performance, thus most likely indicating active suppression of the distracting presentation of the playback. This is the first study that systematically evaluates the effects of natural artifacts (i.e., mental, verbal, and audio perturbations) on SSVEP-based BCIs. The results can be used to improve individual classification performance taking into account effects of perturbations.



2 **Title: Automated Search and Rescue Drone** **Students: Mr. Pranav Gharat, Mr. Pratim Hajra, and Mr. Mihir Kulkarni** **Guide: Mrs. Aditi Raut**

Drones are gradually becoming a fixture when it comes to operations in remote areas, especially rescue operations. As such, there are many non-government organizations (NGOs) using drones in order to run piloted search operations. Drones reduce the operating cost of reconnaissance sorties, since their cost of operation and maintenance is lower than conventional means such as helicopters and low-altitude reconnaissance aircrafts. With the aid of artificial intelligence and computer vision, it becomes entirely possible to make unmanned drones that search an area for survivors, something that will save manpower, time, and resources. The goal of this project is to build a Search and Rescue (SAR) drone system that has drones flying automatically in order to tag areas with high survivor populations for future rescue operations. Drones are fully automated and return survivor locations to the operating base. Drones also have obstacle avoidance and onboard diagnostics in case errors happen. This project could save lives in disaster areas in cases where every second counts, viz. serious medical cases and as such. The computing for the survivor detection is done using a pickled image processing model operating on an onboard microprocessor in order to minimize possible points of failure and maximize operational reliability and efficiency of operation.



3 **Title: Art Market Reformation using Blockchain** **Students: Mr. Altaf Shaikh, Ms. Pratiksha Shetty, and Mr. Vartak Aachal** **Guide: Mrs. Manali Patekar**

Blockchain is a digital record-keeping technology that consists of "blocks" of digital information which are connected by chains via public databases. These "chains" create a decentralized network that entirely eliminates the need for third parties. There are plans for blockchain techniques to be implemented in various real-life industrial applications. In art markets, a considerable number of contemporary artists still struggle to survive with their art earnings. Regardless of how good their artwork might be, they always end up with a loss as patrons and galleries who act as agents for them make massive financial gains. Another serious challenge is to verify the provenance and authenticity of an artwork when the artist is deceased. This system aims to resolve various such issues faced in the art market with the help of blockchain technology; revolutionizing the sale and purchase of art, curb scams and tax evasion, and lessen friction during the auction. The system will also focus on authentic, traceable, transparent, and effective monitoring of each artwork, regardless of whether the original artist is still an involved party. This system also uses InterPlanetary File System (IPFS) to store art securely with smart contracts that are deployed over the ethereum network via Remix (an open-source tool for testing, debugging, and deploying of smart contracts) and to interact with them. A decentralized client-side application using Django and web3.js along with the Metamask which provides the test environment for the system was developed. Thus, this system would ensure that artists get an ideal price for their artwork and the buyers are satisfied with their investment.



Mr. Eric Thomas

BYJU'S -- The Learning App
CTC : 10 LPA

Mr. Suhas Digole

BYJU'S - The Learning App
CTC : 10 LPA

For More :-



Mr. Suraj Tiwari

Zeus Learning
CTC : 5.5 LPA

Ms. Pratiksha Shetty

Larsen & Toubro Infotech Limited
CTC : 5 LPA

Mr. Brandon Rodrigues

Larsen & Toubro Infotech Limited
CTC : 5 LPA

Mr. Onkar Sardesai

Larsen & Toubro Infotech Limited
CTC : 5 LPA

Ms. Niharika Pandit

Infosys
CTC : 5 LPA

Mr. Smith Jethwa

International Business Machines (IBM)
CTC : 4.5 LPA

Ms. Ankita Singh

Multiplier IT Solutions
CTC : 4.5 LPA

Ms. Nancy Mary

Multiplier IT Solutions
CTC : 4.5 LPA

Ms. Snehal Dalvi

CloudFront Technologies
CTC : 3.5 LPA

Ms. Nupur Deshmukh

Larsen & Toubro Infotech Limited
CTC : 3.5 LPA



FINAL YEAR

Mr. Dheeraj R. Dubey

AA Traders Led Solution
(Production Department)
1 month

Mr. Altaf Shaikh

Techsysplus Global Services Pvt
(Django Developer)
1 month

THIRD YEAR

Mr. Hiren Shukla

AA Traders Led Solution
(Production Department)
1 month

Mr. Kanishk Singh

AntStack.io - (Developer Intern)
1 year

Mr. Aditya Chakravarty

UIPEP Technologies Private Limited
(Web Developer)
6 months

Ms. Nakshatra Navrat

Sahu Technologies - (Content Writing)
3 months

Ms. Zarin Shaikh

Western Railway Divisional Railway Manager
(DRM Office Microprocessor)
3 months

Mr. Surya Nemiwal

Bitmanity LLP - (Digital Marketing)
3 months

Mr. Krishna Acharya

Bitmanity LLP - (Digital marketer)
3 months

Mr. Saket Mishra

STAT Institute - (Web Developer and SEO)
2 months

SECOND YEAR

Mr. Shreyash Singh

Scinotic Solutions Pvt. Ltd., Vasai
(Flutter Developer)
1 year

Ms. Shruti Lade

Tata Steel Ltd
(Oracle Backend Developer)
1 month

Mr. Parth Bhatt

Kyrion Technologies Pvt. Ltd., New Delhi
(Machine Learning with AI)
2 months

Mr. Pratik Pathak

Cloud Counselage
(AI/ML Developer)
1 month

Mr. Shubham Patil

Terado Engineering Pvt. Ltd., Virar
(App Developer)
1 month

Ms. Shirley Pereira

Larsen & Toubro - (IT Intern)
1 month

Ms. Jui Patil

Bhabha Atomic Research Centre
(Web Developer)
20 days

Ms. Nidhi Agrawal

INFCO - (Web Development)
20 days



**Arena Animation, Pune
T.E.**



**Prolific Technologies, Pune
T.E.**



**Teksun Pvt. Ltd, Ahmedabad
S.E.**



**Indian Space Research Organization
S.E.**



**Test Yantra Software Solutions
India Pvt. Ltd, Banglore, B.E, & T.E.**



**Qspiders, Bangalore
T.E. & B.E.**



**CDAC, Pune
T.E.**

*"So long as the memory of certain beloved friends lives in my heart, I shall say that life is good."
~ Helen Keller*

“Won't just only suggest to do your academics great, but these are my two cents on Engineering: Never hold back in asking questions. Getting socialized is the biggest key for networking. Build up your portfolio, it is never too early, this gets you extra professional popularity when you get out of graduation. We don't necessarily use all things that we learn, but still it is important to learn every aspect. Push yourselves, lead events & participate too. Get hands-on experience whenever you get vacations. Be a team player always, reflect on what inspires you & to sum it up enjoy the process wholeheartedly.”

Mr. Adwait D. Sharma
Software Engineer at Majesco &
Co-founder at Last Moment Tuitions

“St. John College of Engineering and Management was more than a college to me. It is a privilege to be connected to this institution. A place where I gained knowledge that was best needed for survival in the outer world along with confidence. Right from day one, energy and enthusiasm is what I experienced, be it faculty or students. I am what I am this day because of the curriculum and teaching methodologies adopted by the faculties. The computer laboratory was our innovation/research center, and the problems solved there were the most complicated problems solved till date. An amazing institution that teaches you self-discipline, confidence, and problem solving, which are essential traits to start your journey.”

Mr. Parth Zalavadia
Software Specialist at eClinicalWorks

“The Department of Computer Engineering is among some of the best departments of St. John College of Engineering and Management. The faculty members in this department are supportive and easily approachable. Their friendly nature surely contributes in making the semesters less stressful. Although successful mass bunks might be a little hard to accomplish in the presence of the faculty members, syllabus completion and reliable notes are always ensured for students. The pass out ratio is high as compared to other departments and placements are also provided, thereby making the 4-year course worthwhile.”

Ms. Vidhi Shah
Software Engineer at Majesco

“I started my journey in St. John College of Engineering and Management with some doubts in my mind. As time passed by, these doubts were cleared, and I was focused with a new motivation to chase my dreams. This was possible because of the constant support of the faculty members of the Department of Computer Engineering and my wonderful friends. I always had the support of faculty members like Tina ma'am, Prajakta ma'am, and Nelson sir, to name a few. They have guided and supported me in my journey. I maintained my academics with the help of an excellent teaching staff, and I am thankful to all of them. I would like to give a special mention to my friends Ankit Patel, Anand Awasthi, Aditi Jadhav, and Dhawal Jain, to name a few, for always being supportive. Most importantly, I am forever grateful to all my amazing friends who made this journey valuable and meaningful.”

Ms. Yogda Gharat
Student at Queen Mary University of London

“Well, it was really an awesome journey here. Special thanks to all my faculty members who were strict when I was a student, but today, I realize the value of their scolding. It is the teaching and guidance of all faculty members that helped me scale the heights of success in such a short period of time. From them, I learned to focus not only on core subjects but also on all-round development activities such as public speaking, good presentation skills, team leading activities, etc. I feel fortunate to be a part of this amazing St. John family, and believe me, the Department of Computer Engineering has really good, talented, helpful, and supportive staff who guide you throughout your engineering life. I could have been nothing without them. All the best!”

Ms. Mansi Raut
System Engineer at Tata Consultancy

“Every new experience brings its own maturity and a greater clarity of vision.”

- Indira Gandhi



“ Going to St. John College of Engineering and Management and becoming an engineer was always my dream. I am happy that I can proudly say I was able to achieve it. I will never forget these four years of my life. I was privileged enough to get an opportunity to learn and study under exceptional faculty members of the Department of Computer Engineering. I am forever grateful to Tina ma’am and Prajкта ma’am for guiding me throughout my academic career. They have played a key role in my professional, personal, and academic growth. I feel blessed that I got the chance to learn under such supportive staff. All the events that happened in the college from fest to sports everything was a dream come true. The numerous learning activities that were arranged by the college and the cultural events shaped my socio-cultural interaction and developed communication skills. Today, I am no longer an introvert. Ankit Patel and Yogda Gharat are one of the few people I would like to thank for shaping me in a way that I am proud to say it’s difficult to recognise the old introvert, me. I am grateful to Dhawal Jain and Aditi Jadhav for being wonderful friends. And I would personally like to thank Namdev sir, who has been a great mentor to every student. He has helped many of us in securing our dream job. I will forever be grateful to this college for teaching me the right expertise and building my personality. Thank you for making my dreams come true. It was one of the most unforgettable and thrilling experiences of my life. ”

Mr. Anand Awasti
Graduate Entry Trainee (GET) at L & T InfoTech



“ My days at St. John College of Engineering and Management remind me of the colourful stage, vibrant classrooms, and super supportive faculties. SJCEM enhanced creativity in me, and made me realize my hidden talents. I am really grateful that I was a part of this college, and especially a part of the Department of Computer Engineering that has amazing faculties who have always been thinking of students first instead of themselves, and because of their forever support while we were studying and also after, we have successfully moved ahead in life. SJCEM has not just been a college but an entire family with teachers as our second parents and college as our second home. I am thankful to God that I studied in this college, which acted as a stepping stone in my career life. I just want to thank each and every faculty member for helping me achieve what I desired. ”

Mr. Shivang Sharma
Sr. Business Development Associate at
BVJU'S—The Learning Application



“ My journey in St. John College of Engineering and Management was a roller coaster of ups and downs. But the Department of Computer Engineering supported me through this ride. I feel blessed to have great friends and exceptional staff. The company of friends that I had made my college life pleasant. Tina ma’am, Prajкта ma’am, Ajay sir, some of the few ones, though there are copious amounts from which I can choose, were the ones who kept me motivated and guided me throughout my journey. I am grateful that I met them at this college and got an opportunity to learn from them. Sports day in this college is like a dream because it is so systematically planned that all events can be played peacefully and with sheer confidence. It is one of the best events that we all eagerly wait for as well as that one hour when we are allowed for a DJ at the end of the annual day. This college is just the best because it has numerous fun activities and holidays that we get on various occasions. It is a place where all young talents are given a chance to shine brightly. It is a place that provides us with the freedom to choose and do what we want during our college life. The canteen food is a blend of social culture with numerous food options. I will forever be grateful for everything to this institution for helping me become a better person, for all my amazing friends that I met here, and for shaping a better future for every one of us. ”

Mr. Ankit Patel
Student at Queen Mary University of London



“ St. John College of Engineering and Management is more than a college to me. An institution where I gained knowledge, which taught me self-discipline and confidence. This 4-year journey was wonderful. Events like Megaleio and Science Fest not only involved our institution’s students but also helped outside students explore themselves. Extra-curricular activities like seminars and aptitude classes were so helpful. Throughout my journey, on each step, faculties were supportive and energetic. I am thankful to the principal, faculties, and non-teaching staff for being what I am today. ”

Ms. Shaili Patil
System administrator at Tata Consultancy
Services

Give Power to your VOICE!



Voice is becoming a new thing today. Mostly everyone is using a voice assistant. Industries are using virtual assistants to solve customers' doubts. Nowadays, almost every major tech giant offers its own digital AI assistant—Siri by Apple, Cortana by Microsoft, Google Assistant, Amazon Alexa, Watson Assistant by IBM, and Bixby by Samsung are among the most popular ones. They all started as solutions for mobile phones and PCs, and later some of these companies developed so-called smart speakers supporting the same technology—Google Home and Amazon Echo.

Voice technology has changed everything, from keeping notes and calling a friend to order a pizza from a nearest outlet. Things become too easy by voice technology, for example, "Siri, Play You & I", "Hey Google, Open WhatsApp." You are driving a car and you need food, simply say "Navigate to the nearest restaurant." Even now, voice assistants can be embedded in websites as well.

Voice assistants are much useful for people who are unable to see and type. Let's say a mother who doesn't know English wants to have a communication with her child. She needs to give a command: "गूगल, मुझे सचनि को संदेश भेजना है।" or "गूगल, सचनि को कॉल कर।", and AI assistants will do the needful!

Voice assistants are widely used in entertainment, education, customer support, automobile, and many others. Automobile companies are using a voice assistant to provide better assistance to their drivers.

Virtual assistants are not only changing our everyday lives but also driving a revolution in IT. Nowadays, developers are working hard to learn these innovative technologies and build custom solutions.

How to get started as a beginner...?

For a complete beginner, I would recommend to work with Google assistant as they have beginner-friendly docs, pre-built ML models. Alexa is also recommended to beginners for a smooth start. I recommend having programming knowledge of JavaScript or Python.

If you are familiar with JavaScript, go with Google assistant or Alexa development. For a Pythonner, Rasa is the best tool to start with.

Apart from this, it is advisable to have a basic knowledge of natural language understanding (NLU).

So, let's move from graphical user interface (GUI) to voice user interface (VUI).

Mr. Smit Pratap Jethwa
(B.E. Comp. Engg.)

Generative Adversarial Networks: A Magical Revolution in Deep Learning



Deepfakes—you may have heard this term thrown around in the field of machine learning. You may have also seen the almost realistic video of Barack Obama saying things you'd never expect him to say in public and wondered, "what kind of wizardry is this?"

The answer is generative adversarial networks (GANs). An innovation in deep learning technology, GANs first appeared in 2014 in a paper titled 'Generative Adversarial Networks', primarily authored by Ian J. Goodfellow. Since then, GANs have made a lot of noise in and out of the machine learning industry. Yann LeCun called GANs the most interesting idea in the past 10 years in machine learning.

The basic idea of GANs is the adversarial framework is made up of two neural networks. The first, called the generator, generates data; and the second, called the discriminator, decides whether the data given to it is from the generator or actual dataset. Both networks are trained simultaneously, with the end goal being that the generator achieves a level of sophistication such that the discriminator is no longer able to discriminate between the data from the generator and actual dataset.

Over the past few years, there has been active development on this technology, and the results have been astounding; some quite magical. Some of the things made possible by GANs are photorealistic image synthesis based on semantic descriptions, other images, or simple doodles (NVIDIA GauGAN); image synthesis of humans, animals, landscapes, and other things that do not exist (This X Does Not Exist); super resolution, the real-world counterpart of the 'zoom and enhance' technology from detective television shows, which creates high-quality images from low-resolution pixelated ones; aging, de-aging, swapping, and other alterations to faces; designing molecular structures to aid in drug discovery, and many more.

The advent of GAN and its derivatives has led to many debates due to ethical dilemmas it brings with it, but they are overall a very promising set of tools that have many more milestones to achieve as we progress in the realm of AI.

Mr. Amey Khale
(T.E. Computer Engg.)

Docker



Docker is a tool that is designed to create, deploy, and run applications easily by using containers. Containers allow a developer to package up an application with all of the parts it needs, such as libraries and other dependencies, and deploy it as one package. By doing so, thanks to the container, the developer can be rest assured that the application will run on any other Linux machine regardless of any customized settings that a machine might have that could differ from the machine used for writing and testing a code.

In a way, docker is a bit like a virtual machine. But unlike a virtual machine, rather than creating a whole virtual operating system, docker allows applications to use the same Linux kernel as the system that they are running on and only requires applications be shipped with things not already running on a host computer. This gives a significant performance boost and reduces the size of an application.

Importantly, docker is open source. This means that anyone can contribute to docker and extend it to meet their own needs if they need additional features that aren't available out of the box.

Who is docker for?

Docker is a tool that is designed to benefit both developers and system administrators, making it a part of many DevOps (developers + operations) toolchains. For developers, it means that they can focus on writing code without worrying about the system that it will ultimately be running on. It also allows them to get a head start by using one of thousands of programs already designed to run in a docker container as a part of their application. For operations staff, docker gives flexibility and potentially reduces the number of systems needed because of its small footprint and low overhead.

Mr. Altaf Shaikh
(B.E. Computer Engg.)

The Ease of App Development— FLUTTER



Flutter is Google's UI toolkit for building beautiful, native compiled applications for mobile, web, and desktop from a single codebase. Apps are written in Dart, which looks familiar if you've used a language like Java or JavaScript. Dart is an open-source, object-oriented, general-purpose programming language developed by Google in 2011. Dart made the biggest comeback from 2018 to 2019, from being number one on the "Worst Programming Language to Learn in 2018" to 16th place on the list in 2019. Widgets are the basic building blocks of a Flutter app's UI. Widgets form a hierarchy based on composition. Each widget nests inside

and inherits properties from its parent. Flutter provides a number of widgets that help you build apps that follow material design. Flutter's widgets incorporate all critical platform differences such as scrolling, navigation, icons, and fonts to provide full native performance on both iOS and Android. Flutter's hot reload helps you quickly and easily experiment, build UIs, add features, and fix bugs faster. Experience sub-second reload times without losing state on emulators, simulators, and hardware.

When we talk about mobile app development, flutter is the most trending framework being used right now. There is no doubt that other cross-platform frameworks like React Native is giving a tough fight, but when we see from a future perspective, flutter will be in more demand. Reasons are clear, unlike other frameworks, flutter not only provides mobile apps but also web apps and desktop apps. However, desktop support for windows and Linux are still under development. Can you just imagine how much flutter reduces our work? For example, if you want to make a website you should have knowledge of HTML, CSS, bootstrap, and JavaScript for making a mobile app. You should know Kotlin, Java, or Swift. But by using flutter, you can build anything. It's like one language one framework, and you can build everything.

Google is coming with its new OS called as Fuchsia, which uses flutter as its UI rendering engine. Also, flutter apps can be run on it. Well, I'm working on flutter from past seven months, and I must say flutter is very easy to learn. If you know C and Java or JavaScript, then you can learn dart in one day. With new advanced and customized UIs, many companies are thinking to switch on flutter as it is a cross-platform framework so there is no need to keep two developer's team, i.e., for iOS and Android. Moreover, managing apps will be easier for updates. Using flutter, developer's time will be saved as they don't need to build same apps for different platforms. There are many companies that have already adopted flutter.

Google Ads (Utility), Alibaba (e-commerce), Reflectly (Lifestyle), etc. are some of the famous apps build in flutter, and still many companies are thinking to build their native apps in flutter. Since the flutter community is increasing day by day, there will be a huge demand of flutter developers in the near future.

Mr. Shreyash Singh
(S.E. Computer Engg.)

"Reading is to the mind, as exercise is to the body."
~ Brian Tracy



Ms. Siddhi Kadam (S.E.)



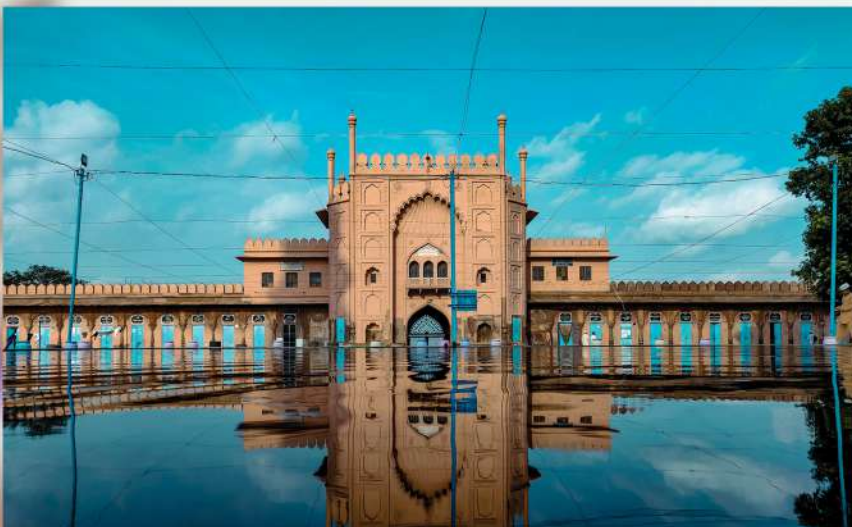
Ms. Sonali Patne (B.E.)



Ms. Meha Chaudhari (T.E.)

Bohot Rangeen h duniya
Sach me!!!
Bohoto Ko dekha rang badalte hue
Aur kuch Ko uss rang me rangte hue
Kuch se Hum seekhte hai
Aur kuch hume seekha jaate hai
Kuch hasne ki wajah ban jaate hai
kuch hume hi wajah Bana lete hai
Haqeeqat to yahi hai
Aaj sach Ko mazak batate hai
Aur jhoot Ko jawab!!!

Mr. Saurabh Nishad (T.E.)



Mr. Saniket Patil (B.E.)





Mr. Krishnakant Mane, Founder of Digital Freedom Foundation, delivered an Expert Talk on "Opportunities in Open Source" on 7th August, 2019.



Mr. Abhishek Bhanushali and Mr. Hiten Patel, students of B.E COMP(DIV A), presented a Research paper at a Symposium on Neuroscience on 3rd and 4th August, 2019 at Infosys, Bangalore



Mr. Yatin Shinde, Assistant Professor of Bharti Vidyapeeth delivered a Seminar On "Digital Marketing" under CSI on 9th August, 2019.



Mr. Mitul Gandhi and Ms. Niharika Pandit interacted with Final year students regarding TCS interview



Ms. Shraddhali Patil addressed Final year students regarding Work Culture of IT Industry and importance of certification



Ms. Rucha Keni representing our college at AYIMUN (Asian Youths International Model United Nations) an annual conference by International Global Network with the theme of "Global Diplomacy amongst sovereign countries" which was held from 15th Feb to 18th Feb, 2020 in Kuala Lumpur, Malaysia where all the young leaders from all over the world were assigned the role of a diplomat representing the assigned countries to discuss and solve the global issues through delivering speeches and formal debates.



Mr. Abhishek Gharat, CEO and Co-Founder of Kraftpixel, conducted One-day seminar on "Entrepreneurship and Opportunities in Web Technology" on 22nd August, 2019



Workshop name: Cloud Study Jam
Date: 13th June 2019
Resource person: Mr. Ali Mustafa Shaikh, Google crowd source
Student Co-ordinators :- Mr. Smit Jethwa and Team
Attended by 58 students

"The arts are an essential element of education, just like reading, writing and arithmetic...music, dance, painting and theater are all keys that unlock profound human understanding and accomplishment."
~ William Bennet



98th Rank in International Flutter Hackathon (Hack20)

Team Zenith Developers



Team Leader

1 Mr. Prathamesh Ayare T.E. Comps

Team Members

2 Mr. Saket Mishra T.E. Comps

3 Mr. Shivam Mishra T.E. Comps

4 Mr. Siddhesh Sawant S.E. Comps

5 Mr. Shreyash Singh S.E. Comps

Major Acheivements

Won SIH 2020 for problem statement #KB186 by Govt. of Andhra Pradesh {Software Edition} Won Money Prize Rs.1 Lakh

Projects Selected for India Innovation Challenge Design Contest

Team Dominators

Team Leader

1 Mr. Jayesh Patil T.E. Comps

Team Members

2 Mr. Mandar Prabhu T.E. Comps

3 Mr. Saket Deshmukh T.E. Comps

4 Ms. Mrunmayi Chinchkar T.E. Comps

5 Ms. Rucha Keni T.E. Comps

6 Ms. Shreya Patil T.E. Comps

7 Ms. Mohini Dhawale T.E. EXTC

8 Mr. Suyog Wade T.E. IT

Projects Selected for SIH {Hardware Edition}

Team GeekCoders



Team Leader

1 Mr. Ritik Dhedia T.E. Comps

Team Members

2 Mr. Nixon Paliakkara T.E. Comps

3 Mr. Abhishek Gupta S.E. EXTC

4 Mr. Ashlee Claral S.E. Comps

5 Ms. Sannidhi Shetty S.E. Comps

Team Tesseractpy



Team Leader

1 Mr. Hiren Shukla T.E. Comps

Team Members

2 Mr. Abhishek Yadav T.E. Comps

3 Mr. Nitish Kumar Singh T.E. Comps

4 Mr. Adarsh Sharma T.E. Comps

5 Mr. Akshay Adkurkar T.E. Comps

6 Ms. Rohini Singh T.E. Comps

Team VNRDS

Team Leader

1 Mr. Vaibhav Patil T.E. Comps

Team Members

2 Mr. Saurav Waghade T.E. Comps

3 Mr. Dhaval Walavalkar T.E. Comps

4 Ms. Rohini Singh T.E. Comps

5 Ms. Jinal Nikam T.E. Comps

6 Ms. Janhvi Puranik T.E. EXTC

7 Ms. Niti Raut T.E. Comps

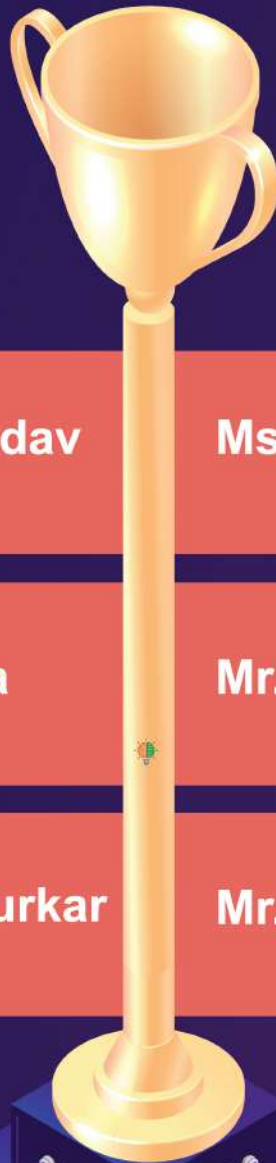
8 Ms. Nandini Patil T.E. Comps



UNIVERSAL PRAYER FOR PEACE

*Make me an instrument of your peace
 Where there is hatred, Let me bring love
 Where there is injury, Your pardon Lord
 And where there's doubt, True faith in you
 Make me an instrument of your peace
 Where there is discouragement, Let me bring hope
 Where there is darkness, Let me bring light
 And where there is sadness, Let me bring joy
 Make me an instrument of your peace
 It is in pardoning that we are pardoned
 It is in giving that we do receive, And it's in dying we're born to life*

SMART INDIA HACKATHON 2020



Mr. Abhishek Yadav

Ms. Rohini Singh



Mr. Hiren Shukla

Mr. Nitish Singh



Mr. Akshay Adkurkar

Mr. Adarsh Sharma



CONGRATULATIONS

TO NATIONAL WINNERS OF SMART INDIA HACKATHON 2020

TEAM TESSERACTPY

TEAM MENTORS : MR. VIVIAN LOBO & MRS. ANGELIN FLORENCE A

MINISTRY NAME : GOVERNMENT OF ANDHRA PRADESH (#KB186)

DOMAIN : CYBER SECURITY

DOMAIN BUCKET : SMART COMMUNICATION