



TECH BYTES

DECEMBER 2020
DEPARTMENT OF CSE

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CMR INSTITUTE OF TECHNOLOGY
#132, AECS LAYOUT, ITPL MAIN ROAD, KUNDALAHALLI,
BENGALURU — 560 037, KARNATAKA, INDIA

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Vision

To be a centre of excellence in computer science and engineering education producing competent professionals for a successful global career contributing to the society.



Dr. Sanjay Jain
Principal



Dr. B. Narasimha Murthy
Vice Principal

Mission

- To build a faculty team with industry and academic exposure, capable of molding students into competent professionals, supported by adequate computing and software resources.
- To prepare the students for a global career in computing by enriching the curriculum with a blend of theory and practice.
- To develop industry relevant programming and soft skills through training programs, vibrant student clubs and student internships.
- To engage with industry and institutes of repute and collaborate in academics, research and development involving faculty and students.

Editorial Note

We thank the respective coordinators from the department for the reports on various events conducted and the timely updates to the ERP portal. This has greatly aided in organizing the data required for the newsletter.



We thank the faculty, students, and alumni for the contribution of various technical and non-technical articles, painting and photography for the newsletter. Our profound sense of gratitude to the department in giving us an opportunity in editing the newsletter.

Editorial Board



Mrs. Savitha N J
Assistant Professor
Dept. of CSE



Mrs. Vivian Mary John
Assistant Professor
Dept. of CSE

Social Media



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https://twitter.com/CMRIT_Bengaluru

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<https://www.instagram.com/cmrit.bangalore/>

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https://www.youtube.com/channel/UCpi96paEf16WS-Xf0_xyL9Q

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LINKED IN

<https://www.linkedin.com/company/cmrit-institute-of-technology-bangaluru/>



MESSAGE FROM HOD

Dear Stakeholders,

..... I hope this message finds you and your family well, and in the best of your spirits.

While the COVID-19 pandemic has threatened to bring our lives to a standstill, we have committed to doing everything to keep the learning of our students going during this time. As you are aware, during the lockdown period, we have streamlined our online learning sessions to enable students to cope with the semester to the best extent possible. As the wise saying goes, 'Necessity is the mother of invention', this trying period had enabled all of us to explore innovative solutions to adapt ourselves to the 'new normal'. With all your support and cooperation we, the department of computer science and engineering at CMRIT have proved ourselves to be no less than the tech-savvy software industry.

This newsletter captures the various achievements, of both students and faculty from the brief period before the lockdown to date. The students and the faculty have made the best use of the online platforms to organize and take part in various activities including student club events, hackathons, and alumni & industry guest lectures. I congratulate all the coordinators and the participants for their admirable efforts in the various events. With cooperation from our students, faculty team, and all the stakeholders, we have been able to turn the odds into opportunities. With this, I truly believe we would be able to win the battle against the pandemic. Stay safe; Stay well!



**Dr. Prem Kumar
Ramesh
HOD, CSE**

ABOUT THE DEPARTMENT

The department of Computer Science & Engineering has been in existence from the inception of CMRIT in 2000. The department even offers an M.Tech program in the field of Computer Science and Engineering. The department is a recognized research centre under VTU and offers doctoral programs in computer sciences.

The department aims to provide students with a strong foundation in Computer Science and enable them to integrate their knowledge with other disciplines for carrying out innovative discoveries.

Many of the computer science graduates from CMRIT step directly into computer related career positions in both private and government agencies, while some choose to continue their education in graduate degree programs.

EXPERT LECTURES

Topic: "Microservices related to Full Stack Development"

Presented by: LAVANYA VENKATRAMANI, Sr. Software Engineer,
Accolite Software Pvt Ltd

Date: 05/09/2020

Time: 11:20AM – 12.20 PM

Venue: <https://meet.google.com/ugj-izxuhjx>

No. of audiences: 62

ABOUT THE SPEAKER

Ms. Lavanya has had over two years of experience in this field. She was a part of new joiners training committee core team at Accolite. Back in college, she was the marketing head for our department's technical symposium and she had conducted two technical workshops for school children in the international level tech symposium of our college, Kurukshetra.

The image is a collage of screenshots from a Zoom meeting. The top row shows a code editor with Java code, a participant list with names like LAVANYA VENKATRAMANI, HARSHAL WALKA, and SHANMUKH KUMAR, and a chat window. The bottom row shows a slide titled 'REST API' with bullet points about REST and HTTP methods (GET, PUT, POST, DELETE), and a diagram titled 'MICROSERVICE ARCHITECTURE' showing a 'UI Microservice' connected to 'Search', 'Payments', and 'Review & Ratings' services.

EXPERT LECTURES

Topic: "Institution to Industry"

Presented by: Arun Venkatachaliah, Senior Tech. Consultant.

Date: 03/10/2020

Time: 11:20AM – 12.20 PM

Venue: <https://meet.google.com/ngo-rwkk-rup>

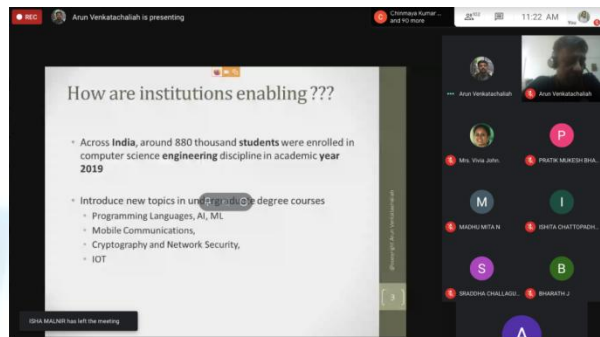
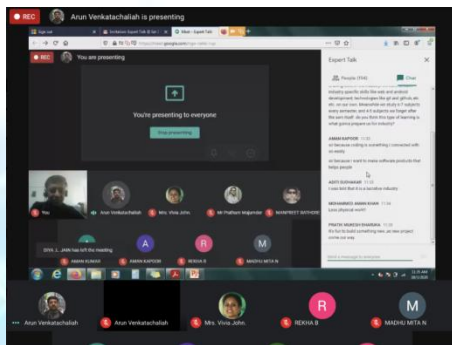
No. of audiences: 120

ABOUT THE SPEAKER

Mr. Arun started his career from computer hardware and then moved onto software programming. In his early years, he developed complex call processing telecom exchange software and then later moved onto Program Management responsible for product development, solutions, testing and quality analysis.

He has more than 20 years of industry experience and more than 3 years of consulting to start-ups in retail and last mile connectivity.

His interests lie in developing IoT based solutions, retail automation, seamless connectivity and food technology.



EXPERT LECTURES

Topic: “System Landscape overview in SAP”

Presented by: Vignesh Anandan, Associate Software Engineer

Date: 17/10/2020

Time: 11:20AM – 12.20 PM

Venue: <https://meet.google.com/pqd-qheo-acm>

No. of audiences: 60

ABOUT THE SPEAKER

Mr. Vignesh Anandan completed his MS in Computer Software Engineering from Vellore Institute of Technology, Vellore Campus. He joined TCS as an SAP Basis Consultant. Currently, he is associated with Cognizant.

SM50

Work Processes of AS Instance

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Transport Organizer: Requests

Request Selection without Restricting User Mass

- SAP AS Systems
 - WORKBENCH: Workbench request
 - SAP AS Virtual System
 - Modifiable
 - SAP AS Virtual System
 - Modifiable
 - Logical systems for clients
- SAP CHARM CONFIGURATION
 - Local Change Requests
 - Modifiable
 - SAP AS Virtual System
 - Modifiable
 - Logical systems for clients

RELEASE TR

TRANSPORT DIRECTORY

TMS

Transport Management System

System: CORALINE

Transport: Transport

R/3 ARCHITECTURE

SAP SYSTEM (3 Tier Architecture)

- Presentation Layer (Web browser)
- Application Layer (Web browser)
- Database Layer (Web browser)

R/3 ARCHITECTURE

SAP SYSTEM (3 Tier Architecture)

- Presentation Layer (Web browser)
- Application Layer (Web browser)
- Database Layer (Web browser)

SAP

SAP is the market leader in enterprise application software, helping companies of all sizes and in all industries run at their best: 77% of the world's transaction revenue touches an SAP system. Our machine learning, Internet of Things (IoT), and advanced analytics technologies help turn customers' businesses into intelligent enterprises. Our end-to-end suite of applications and services enables our customers to operate profitably, adapt continuously, and make a difference.

EXPERT LECTURES

Topic: "Backup and Restores"

Presented by: Nagendramani Pandey, IT Consultant, TCS

Date: 24/10/2020

Time: 10:10AM – 11.10 PM

Venue: <https://meet.google.com/eiv-vtkc-xrb>

No. of audiences: 60

ABOUT THE SPEAKER

Mr. Nagendramani completed his M.Tech in Computer Software Engineering from Vellore Institute of Technology, Vellore Campus. He joined TCS as in IT Consultant.

The image displays six presentation slides from a Dell EMC NetWorker backup and restore lecture, arranged in a 3x2 grid. Each slide includes a title, a diagram or table, and a footer with the Dell EMC logo and a 'Next' button.

- Slide 1: Why NetWorker?** A diagram showing four key features: Automated backup and recovery with centralized management, Advanced application and database support, Performance and security, and Variety of backup storage options including leading deduplication and cloud technologies.
- Slide 2: Networker Data Zone** A diagram illustrating the data flow between a Server, Storage Node(s) (Optional), and Client(s), all connected to a central Device(s) (Data Domain).
- Slide 3: NetWorker Data Protection Functions** A table listing various functions: Backup (copies production data to another location), Recovery (restores data to original state), Archiving & Archiving (prevents deleting and accessing backup metadata), Aging (determines backup data availability), Cloning (copies backup data to another volume), and Migrating (moves backup data from one storage volume to another).
- Slide 4: Planning Data Protection Environment** A diagram showing four key considerations: Identify data to be backed up by client, Determine criticality of data based on RPO/RTO, Identify the backup window availability, and Type and frequency of requests, along with Internal and regulatory requirements.
- Slide 5: Traditional Backup Workflow** A diagram showing a traditional backup workflow involving a Client, Backup Agent, Backup Server, and Storage Node.
- Slide 6: Synthetic Full Backup Considerations** A diagram showing four key considerations: Supported for file system backups only, Does not eliminate the requirement to run full backups, Greatest benefit for environments with bandwidth and/or client concerns, and Schedule to run outside of normal backup windows.

EXPERT LECTURES

Topic: “Data Literacy in Business Decisions”

Presented by: Joel Gnanara, Jr. Business Analyst, Inatech

Date: 21/11/2020

Time: 11:20AM – 12.20 PM

Venue: <https://meet.google.com/hss-sats-oyy>

No. of audiences: 35

ABOUT THE SPEAKER

Mr. Joel is a dynamic software professional proven to stabilize and provide solutions to various industry sectors. He is highly confident and ambitious in achieving goals and so transitioned into a data scientist to leverage organizations with the help of data and technology. He has on hands experience with enterprise resource planning and customer relationship management softwares. He is adept in machine learning models and Data Wrangling, Visualization, Business Intelligence Tools and Techniques.



EXPERT LECTURES

Topic: “Data Presentation and MAnagement”

Presented by: Noel Anandraj, Assistant General Manager, Schneider Electric India Pvt. Ltd.

Date: 12/12/2020

Time: 11:20AM – 12.20 PM

Venue: <https://meet.google.com/ngo-rwkk-rup>

No. of audiences: 25

ABOUT THE SPEAKER

Mr. Noel Anand Raj is working as an Assistant General Manager in Schneider Electric India Pvt. Ltd. in the Research & Development Department. He completed his engineering in Anna University in 2004. Apart from his role, he is also a trainer in statistical analysis. He is a six-sigma green belt holder. He is an auditor, ISO 9001 certified professional. He holds the prestigious Edison Expert in Schneider Electric.

PROJECT TEAM

Marketing
Project manager
Designer Software Engineer Quality Purchaser Supply chain
Manufacturing Plant Customer

DESIGN DATA

- Size form factor, weight, material...
- Aesthetic requirement, look and feel.
- Camera requirements
- Display requirements
- Type of connectivity
- Gaming capability
- Etc.....

INTRODUCTION TO SHAREPOINT IN MICROSOFT 365

Microsoft SharePoint is a cloud-based service that helps organizations share and manage content, knowledge, and applications so:

- Empower teamwork
- Quickly find information
- Seamlessly collaborate across the organization

A quick overview of Sharepoint

EXPERT LECTURES

Topic: “Agile Software Development”

Presented by: Vinai Prasanth, System Engineer, TCS

Date: 22/1/2021

Time: 11:20AM – 12.20 PM

Venue: <https://meet.google.com/hss-sats-oyy>

No. of audiences: 35

ABOUT THE SPEAKER

Mr. Vinai is an experienced Systems Engineer with a demonstrated history of working in the information technology and services industry for 4.5 years. He is skilled in Manual testing, SQL and Selenium automation tool. Mr. Vinai works as a Systems Engineer in TCS, Bangalore. He received his B.Tech degree in Information technology from Easwari Engineering College.

Topic: “Institution to Industry”

Presented by: Arun Kumar, Wipro

Date: 4/12/2020

Time: 11:20AM – 12.20 PM

Venue: <https://meet.google.com/hss-sats-oyy>

No. of audiences: 30

ALUMNI TALKS

Topic: "I.T Trends in 2020"

Presented by: Ms. Priyanka Srivastava

Date: 04/09/2020

Time: 12:00PM – 01:00 PM

Venue: <https://meet.google.com/hss-sats-oyy>

No. of audiences: 35

ABOUT THE SPEAKER

Ms. Priyanka Srivastava is an Application Developer at VMware and a CMRIT graduate of the 2014 batch. During her talk, she shared her journey of becoming a part of VMware. It was a very interactive session conducted to give students an idea about the phases which an individual has to go through while choosing Development as a profession. She stressed the importance of soft skills like relationship building skills, presentation skills and public interaction skills for a successful career. She also emphasised that it is important to learn certain technical concepts whether we like it or not and that we should sometimes trust our instincts whenever we have a strong gut feeling while taking decisions. She said that it is important to be patient while considering Development as a profession. She reminded students to keep practicing important concepts as hard work always pays at the end and she also reassured students that it is okay to have self doubt and that they will eventually find their areas of specialization if they keep learning and exploring. She also mentioned that I.T is a very fulfilling profession. It was a very motivating experience for students. She wonderfully answered to the various queries posed by the students. She made students realize the importance of Technical Skills as well as Soft Skills in their career.

Some of the queries asked by the students:

- What skills should we develop during our engineering course?
- What are the skills required for Developer role?
- How hackathons influence interviews?
- What percentage of importance does Internship hold in interviews?

FACULTY PUBLICATIONS

Dr. Manoj Challa	Fuzzy Based Hierarchical Cluster Routing (FBHCR) Protocol for Mobile Sensor Networks
Dr. Shanthi. M. B, Dr. Pushpa Mohan	A Hybrid Approach for Movie Recommendation System using Bisect K-Means and Parallel SGD
Dr. Paras Nath Singh, Mrs. Shet Reshma Prakash	Object Detection through Region Proposal Techniques : A Review
Mrs. Sherly Noel	Smart Voice EMail(VMAIL) Application - assistant for Visually Impaired Users(VIU)
Dr. Jagadishwari	Link Prediction using Influencer nodes of a Social Network
Mrs. Smitha N	Performance comparison of Machine Learning classifiers for fake new detection
Mrs. Savitha N J	Cyber Bullying Prediction for Safe Environment in Social Media
Dr. Rijo Jackson Tom Pavan Rajkumar Magesh, Richard Delwin Myloth	An Explainable Machine Learning Model for Early Detection of Parkinson's Disease using LIME on DaTSCAN Imagery
Mr. Hemanth Kumar H S	A Novel Approach of SVM based Classification on Thyroid Disease Stage Detection
Mrs. Sagarika Behera, Dr. Jhansi Rani P	Application of Homomorphic Encryption in Machine Learning
Mrs. Poonam Tijare, Dr. Jhansi Rani P	A Sentiment Driven Approach to Detect Offline Events on Social Media Platform "
Dr. Paras Nath Singh	Searching String in Bidata - A better approach by Applied Machine Learning
Mrs. Gopika D	FML: Fuzzification with Machine Learning based Parent Node Selection in RPL/6LoWPAN
Mrs. Gopika D	Energy efficient routing protocols for WSN based IoT applications: A review
Dr. Jhansi Rani P	Analyzing Big Data Originated from Data Communication Networks using K-Means Algorithm to Understand the Nature of Incoming Malicious Connections

FACULTY PUBLICATIONS

Dr. Paras Nath Singh	Quantum Circuits - An Application in Qiskit-Python
Mrs. Gopika D	FSS: Fuzzy Supervised Learning for Optimal Path Selection in RPL
Mrs. Rubini PE	Deep Learning model for early prediction of plant disease
Mrs. Rubini PE Vaibhav Padmanabha Shruti Singh Swedel Viola Fernandes	MCIDS-Multi Classifier Intrusion Detection system for IoT Cyber Attack using Deep Learning algorithm
Mrs. Vivia Mary John, Mohammed Rifas S	QUANTUM NETWORKING - DESIGN CHALLENGES
Mrs. Vivia Mary John, Burla Sai Teja	GENERATIONS OF WIRELESS MOBILE SENSOR NETWORKS: AN OVERVIEW
Dr. Shanthi M. B.	Touch-Free Finger Sensing using Laser Light for Keys and Keyboards
Dr.Kavitha P	Deep Learning model for early prediction of plant disease
Mr. Kartheek GCR	Automatic Detection and Initiation for Multiple Human Tracking Using Particle Filter
Dr. Prem Kumar Ramesh	IMPACT OF SUPPLY CHAIN ANALYTICS ON RETAIL INDUSTRY - A SURVEY
Dr. Prem Kumar Ramesh	Towards a Unified Approach for Crop Yield Prediction
Dr. Shanthi M. B.	Personalized Monitoring of Air Pollution and Alert Generation Using an Android Application
Mrs. Sagarika Behera	AN EFFICIENT APPROACH TOWARDS ANALYSIS AND VALIDATIONS OF MACHINE INTELLIGENCE MODELS FOR PULMONARY TUBERCULOSIS DRUGS RESISTANCE
Mrs. Sagarika Behera	An Efficient Double Encryption of Privacy Preserve of Data Security in Cloud Platform on Translucence Prototype
Mrs. Poonam Vijay Tijare	Personalized Recommender Systems: An Empirical Analysis

FACULTY PUBLICATIONS

Dr. Rijo Jackson Tom	Computational Approach for Character Identification and Retrieval of Grantha Inscription
Mrs. D.Sudha	REDUNDANCY AWARE COST OPTIMIZATION IN WORKFLOW IN CLOUD COMPUTING ENVIRONMENT
Mrs. Smitha N	Performance Comparison of Machine Learning Classifiers for Fake News Detection
Mrs. Sagarika Behera , Aarathi Nair , S. M. Divyavani , Sabita G , Sophia Maria Augustine	Securing EHRs Using Blockchain Technology
Mr. Pratham Majumder	Fully Homomorphic Encryption based Privacy-Preserving Data Acquisition and Computation for Contact Tracing
Mr. Pratham Majumder	Run Length Distribution based Block Coding Scheme for Sustainable IoT Applications

PATENTS FILED

Dr. Rijo Jackson Tom	ONLINE transformer health monitoring System
Mrs. Vivia Mary John	Content creation input device for non-touch sensitive 2D surfaces
Dr. Prem Kumar Ramesh	Shape Retaining Scalable Electric heating Pad Tiles
Dr. Paras Nath Singh, Mrs. Vivia Mary John	Hide and Target
Dr. Manoj Challa	System and Method for a SMART Coffee / Tea Thermos
Mrs. D. Sudha, Dr. Shanthi M B, Mrs. Sagarika Behera, Mr. Shivraj B	Automated Unit for Mango Segregation
Mrs. D. Sudha, Dr. Shanthi M B, Mrs. Sagarika Behera, Mr. Shivraj B	Roller Based black board cleaner: A teaching aid
Mrs. Smitha N, Mrs. Savitha NJ, Mrs. Rubini	SMART APPARATUS FOR SEED GERMINATION
Mrs. Smitha N, Mrs. Savitha NJ, Mrs. Rubini	Hand Sanitizer and Hand wash Caplet-Hand Sanitation Kit
Mrs. Smitha N, Mrs. Savitha NJ, Mrs. Rubini	A motion, pressure and proximity sensitive content creation device
Mrs. Gopika D, Mrs. Sherly Noel	Smart IoT based Insect Repellent System
Dr. Shyam P Joy	Smart Toilet Cistern
Mrs. Gopika D, Mrs. Sherly Noel	Replenishment Organiser for Tissue paper

PATENTS FILED

Mrs. Poonam Vijay Tijare	A system to detect and predict an event on social media platforms
Mrs. S.Aarathi, Dr. Kavitha	IOT based smart device in synthetic pigment identification
Mrs. D. Sudha, Dr. Shanthi M B, Mrs. Sagarika Behera, Mr. Shivraj B	Smart Helmet using Millimeter Wave Radar
Mrs. D. Sudha, Dr. Shanthi M B, Mrs. Sagarika Behera, Mr. Shivraj B	A sensor based wiper apparatus for helmet
Mr. Kartheek G C R	A System and Method for Eliminating Airborne Allergies
Dr. Rijo Jackson Tom, Mr. Pratham Majumder, Mrs. Vivia Mary John	An IoT Edge based Vehicular System and a method thereof
Dr. Rijo Jackson Tom, Mr. Pratham Majumder, Mrs. Vivia Mary John	An IoT based smart air purifier and a system thereof
Dr. Rijo Jackson Tom, Mr. Pratham Majumder, Mrs. Vivia Mary John	A privacy preserving Smart Water Bottle for Health care Applications
Dr. Jhansi Rani P, Dr. Preethi Sheba	DEVICE TO LIMIT THE OVERWEIGHT OF A WASHING UNIT OF A CLOTHES WASHER
Dr. Jhansi Rani P, Dr. Preethi Sheba	SMART ONLINE TEACHING TOOL
Dr. Kavitha, Mrs. S.Aarathi	Smart IoT based Intravenous infusion system
Mrs. Sreedevi N, Dr. Jagadishwari, Ms. Savitha S	Automated Touchless Door Alarm with Non-Contact Temperature Sensing and Distance Monitoring System

PATENTS FILED

Mrs. Sreedevi N, Dr. Jagadishwari, Ms. Savitha S	COVID-19 SAFETY CANE FOR VISUALLY IMPAIRED
Mrs. Sreedevi N, Dr. Jagadishwari, Ms. Savitha S	Battery Comb With Warm Oil Dispenser
Mr. Kiran Babu	System and method for smart wristwatch for visually impaired
Mr. Hemanth Kumar	AN EASY PLANT CULTIVATING SYSTEM WITHOUT SOIL
Dr. Rijo Jackson Tom	AN IOT BASED SMART AND EFFICIENT WIRELESS POWER TRANSMISSION SYSTEM
Mrs. Anjali Gupta	Automatic whistle based smart watering pot
Dr. Sreekanth Malladi	Security Enhanced UPI with geographic information
Dr. Shanthi M. B	Touch-less laser based finger sensing for keys and keyboards
Mrs. Poonam Tijare, Arnab Das, Prateek Dey, Preeti	Operating computer and similar gadgets with mouse shaft instigation using facial gestures for people
Dr. Jhansi Rani P	An automated self-improving analysis engine to assign a measurement parcel
Dr. Paras Nath Singh, Mrs. Aarthi S	“Murkatti” Method for Pandemic Forecast

MOU

Company Name: Kalpavruksha Travel Solutions Pvt. Ltd.

Collaboration: Mobile App Development for IOT Based Vending Machine

Objective: The Objective of this project is to build a demo Application for vending machine which acts as ATF (Any Time Food / All Time Fresh).

BOOK PUBLICATIONS

Faculty Name: Dr. Paras Nath Singh

Book Name: Machine Learning Espousal in Signal Processing: Application, Challenges & Road Ahead

Chapter Name: Chapter 8: Brain Computer Interfacing

Student Name: Vaibhav Padmanabha

Book Name: Whisper of Heavenly Souls

Contributions: “Bird of Paradise”, “Not the best person”

FOSS

Event Name: How to Prepare for GSoC: A Knowledge Sharing Session

Resource Person: Mohammed Rifas S

Date and Time: 24/9/2020, 6:00PM – 7:00PM

Objective:

- Connecting the senior students with juniors and making them to work together toward participation in GSoC-2021.
- Share the experience of GSoC preparation and steps to be followed to start contribution on open source projects

No. of Participants: 35

Event Name: Leveraging the Open Source Resources

**Resource Persons: Dr. Mohith Tahiliani, Mr. H. L. Praveen Raj,
Mr. Adarsh Naidu**

Date and Time: 17/10/2020, 03:00PM – 05:00PM

Objective:

- To share knowledge, expertise and exchange best practices in preparation of GSoC.
- To get guidance from GSoC Winners-2020 to work toward successful participation in GSoC-2021.
- To understand the expectations of a GSoC mentor and prepare accordingly.
- To understand how to identify GSoC organizations and get the mentorship from them.
- To motivate the students to prepare for GSoC.

No. of Participants: 30

FOSS

Event Name: Version Control using Git and Github

Resource Person: Gautham A. Nagendran

Date and Time: 21/8/2020, 6:00PM

Objective:

- To encourage students to use open source software tools
- Educate co-learners to contribute on collaborative tasks, by demonstrating,
 - How to use Git Version Control to track changes to one's work over time
 - How to use GitHub to collaborate with others
 - How to structure one's commits so that the updated changes are clear to others
 - How to write effective commit messages
- How to assign private or the public access to the content update on Github

No. of Participants: 35

Event Name: Workshop on FLUTTER - UI Framework

Resource Person: Kanhaya Kumar Yadav

Date and Time: 02/10/2020, 11:00AM

Objective:

- To introduce an open source multi platform App development user interface framework by giving a hands-on training session.
- Encourage the peer learners to use open source UI-framework in App development in much simpler way.

No. of Participants: 30

TECH TALKS

Mrs. Aarthi S.	AI in medicine
Mr. Hemanth	Spring boot microservices
Mrs. Smitha	Building data science web app using Open source frame work and Python
Mrs. Sherly Noel	Investigating messaging protocols - IoT data exchange
Mr. Kartheek G C R	Distributed Web & IPFS
Dr. Preethi Sheba Hepsiba	Bag-of-Tasks Intelligent Scheduling Agent
Mrs. Anjali Gupta	Use cases of Data-Analytics in health care and demo presentation through Jupyter notebook for the prediction of Heart Disease.
Dr. Rijo Jackson Tom	Explainable AI in Biology
Dr. Sreekanth M	Towards formal analysis of UPI protocols
Mr. Pratham	Run Length Distribution based Block CodingScheme for Sustainable IoT Applications
Mrs. Sreedevi N	AHP for land slide hazard zonation mapping
Mr. Kiran Babu	Smart contract in block chain technology
Mrs. Sagarika Behera	Creating a Chatbot using IBM Watson Assistant
Dr. Shanthi	IPFS the future WEB

SUCCESSFUL COMPLETION OF Ph.D

FACULTY NAME	RESEARCH AREA	RESEARCH CENTER
Dr. Jagadishwari	Data mining	BMS college of engineering
Dr. Preethi Sheba Hepsiba	Cloud Computing	Karunya Institute of Technology and Sciences
Dr. Manoj Challa	Wireless Sensor Networks	S V University Research Center



PLACEMENTS

SPACE GRAB (21.3 LPA)

Rahul Raj Dev Sahoo

CIMPRESS (12 LPA)

Apurva Mathur

Krishna Keshan

VMware

Ramya T (11.55 LPA)

Mohammed Rifas S
(35K/month)

EUROFINS (8 LPA)

K Sneha Lalita

Aryan Shah

Shreyas Kilingaru
Nadumanae

Umang Kumar Agarwal

Vaibhav Padmanabha

DELOITTE (7.6 LPA)

Burla Sai Teja

Dheeraj J C

Harshit Kumar

Hitesh Bhalotia

Kaiwalya Shukla

Perna Maisnam

R Sruthi Parvatha

Roshni Kundu

Sai Priya K

Sayan Pal

Aparanji G S

Swedel Viola Fernandes

Zeeshan Islam

EPICOR (7.56 LPA)

Mukul Nair

Pavan Rajkumar Magesh

PLACEMENTS

SUREWAVES (7 LPA)

Abhinab Mishra

Ashwin M S

Richard Delwin Myloth

Shruti Singh

Shubham Goyal

Yash Mathur

PwC (6 LPA)

A Vidhya

Pooja Upadhyay

Dhanush V

KOCH INDUSTRIES (6 LPA)

Abhishek

Anshu Yadav

Apurva Mathur

Archit Vinod

Divya Reddy

Ebenezer

Ishika Thakur

Ramya T

Roopashree Ya

Rucha Patani

Sathuryan S

Shivaprasad S B

Shivarevanth Reddy Leburu

Varun Devadiga

Vinay Deep

PLACEMENTS

ELLUCIAN (5.78 LPA)

Mohammed Rifas S

Melvin K Milkiyas

Rushyanth S

Kiran Raghu

Aayush

Aditya Pandey

Umang Kumar Agarwal

BRIDGE SOLUTIONS (5.5 LPA)

Chethan B S

Ashish M B

Shreya C Bhatt

Soumya Srivastava

Sugyan Maharana

Ujjwal Jain

EPSILON (5 LPA)

Ashika Pemmaiah B

Akhila B

Aishwarya

Sagun

Suhas C V

Pillai Vignesh Sureshkumar

Tangudu Srilekha

Shruti Singh

Priyanka M K

Tejaswini Punedar R

E&Y (4.25 LPA)

Navya R

Sumathi M

Ritish Verma

PLACEMENTS

COGNIZANT (4.02 LPA)

Hithesh Kumar Cm

Ashav Srivastava

Harsha B Patil

Shridharan Sreenivasan

Shreya R

Srilekha Tangudu

TCS (3.96 LPA)

Prakhyath Jain

Mamtha M V

Aditya AV

Harshini P

V Rachana

Ashika Pemmaiah B

Madhumitha Sudhakaran

INFOSYS (3.6 LPA)

Shreya R

CAPGEMINI (3.8 LPA)

Fozail Akram

Krutant Nandakumar

Neha Joshy

Nivedha Jayakumar

Raksha E P

Roopashree Y A

Shashank V. Sonar

MINDTREE (2.97 LPA)

Chaithanya C

Madhumitha Sudhakaran

Neeraj Kumar

Nithin Kumar M

Saiprasad Revankar

Rageshwari

Aliva Mohanty

Mahesh

PROFESSIONAL BODY ACTIVITIES

TOPIC: Webinar on Pointers- The Queen of C

RESOURCE PERSON: Dr. Paras Nath Singh

DATE: 17/10/2020

PROFESSIONAL BODY: Indian Science Congress Association

NO. OF PARTICIPANTS: 92

TOPIC: Quiz on Python

DATE: 19/12/2020

PROFESSIONAL BODY: Computer Society of India (CSI)

NO. OF PARTICIPANTS: 48

CLUB ACTIVITIES

NAME OF CLUB: ACE

TOPIC: Pydef

DATE: 28/09/2020

PARTICIPANTS: 60

NAME OF CLUB: Mindspark

TOPIC: Code for ML Initiator - "Python Challenge"

DATE: 30/09/2020

PARTICIPANTS: 22

CLUB ACTIVITIES

NAME OF CLUB: Hakerearth

TOPIC: Code Fiesta 2.0

DATE: 29/09/2020

PARTICIPANTS: 37

NAME OF CLUB: Cybernauts

TOPIC: ENVISAGE - The Web Hunt

DATE: 15th Aug 2020

PARTICIPANTS: 35

NAME OF CLUB: Cybernauts

TOPIC: 24Hrs Hackathon - CODE FOR CHANGE

JURY MEMBERS: Ashish Pathak(ICICI Investment and Portfolio Manager) and Reginald Onyeananam (sponsor)

DATE: 21st Aug 2020

PARTICIPANTS: 52

NAME OF CLUB: ACE

TOPIC: Pixel

DATE: 8 th Aug 2020

PARTICIPANTS: 13

NAME OF CLUB: Mindspark

TOPIC: MIND PICTO Challenge.

DATE: 9 Aug 2020

PARTICIPANTS: 34

CLUB ACTIVITIES

NAME OF CLUB: Mindspark

TOPIC: Introduction to Machine Learning & Placement Guidance

RESOURCE PERSON: Pavan Tej

DATE: 19/8/2020

PARTICIPANTS: 60

NAME OF CLUB: Hackerearth

TOPIC: Competitive Coding 101

DATE: 16-08-2020

RESOURCE PERSON: Sourish Mukherjee, Aman Kapoor, Nalin Singh

PARTICIPANTS: 30

NAME OF CLUB: Moziety

TOPIC: WebPhase v2.0

RESOURCE PERSON: Arpan Abhishek

DATE: 20-08-2020 – 24-08-2020

PARTICIPANTS: 25

NAME OF CLUB: Hackerearth

TOPIC: Code Fiesta

DATE: 29th August 2020

PARTICIPANTS: 43

CLUB ACTIVITIES

NAME OF CLUB: Cybernauts Club

TOPIC: Picsta

DATE: 2nd Oct 2020

PARTICIPANTS: 35

NAME OF CLUB: Cybernauts Club

TOPIC: FLUTTER DEVELOPMENT : CHAPTER 1

RESOURCE PERSON: Shubam

DATE: 18th Oct 2020

PARTICIPANTS: 28

NAME OF CLUB: ACE

TOPIC: Codigo

DATE: 16th Oct 2020

PARTICIPANTS: 53

NAME OF CLUB: ACE

TOPIC: Crossword

DATE: 22 Oct 2020

PARTICIPANTS: 24

NAME OF CLUB: Mindspark

TOPIC: QuizonDS

DATE: 22 Oct 2020

PARTICIPANTS: 41

CLUB ACTIVITIES

NAME OF CLUB: Geeks for Geeks

TOPIC: October Rumble

DATE: 5 Oct 2020

PARTICIPANTS: 20

NAME OF CLUB: Moziety

TOPIC: Getting Started with OpenSource.

DATE: 17 Oct 2020

PARTICIPANTS: 20

NAME OF CLUB: Hackerearth

TOPIC: Crackthecode 2.0

DATE: 18 Oct 2020

PARTICIPANTS: 20

NAME OF CLUB: Cybernauts club

TOPIC: The Hobnob

DATE: 16th Jan 2021

PARTICIPANTS: 30

AWARDS & ACHIEVEMENTS

NAME	EVENT	AWARDED BY	DATE
GAYATHRI V SHENOY, 1CR19CS061	Short term course on "Learn to Design your own Solar Home System".	Energy Swaraj Foundation association with AICTE	14th Sept 2020
G Thejes Raj, 1CR19CS055	Short term course on "Learn to Design your own Solar Home System".	Energy Swaraj Foundation association with AICTE	13th Sept 2020
DINESH,1CR19CS049	Short term course on "Learn to Design your own Solar Home System".	Energy Swaraj Foundation association with AICTE	10th Sept 2020
DHRUVA BARMAN, 1CR19CS046	Short term course on "Learn to Design your own Solar Home System".	Energy Swaraj Foundation association with AICTE	13th Sept 2020
DARSHAN R, 1CR19CS037	Short term course on "Learn to Design your own Solar Home System".	Energy Swaraj Foundation association with AICTE	13th Sept 2020
DHANUSH KUMAR N, 1CR19CS044	Short term course on "Learn to Design your own Solar Home System".	Energy Swaraj Foundation association with AICTE	10th Sept 2020
DEEPU M, 1CR19CS042	Short term course on "Learn to Design your own Solar Home System".	Energy Swaraj Foundation association with AICTE	10th Sept 2020
DADIREDDY SAI KUMAR REDDY, 1CR19CS035	Short term course on "Learn to Design your own Solar Home System".	Energy Swaraj Foundation association with AICTE	13th Sept 2020
GANESHGOUDA HIREGOUDAR, 1CR19CS058	Short term course on "Learn to Design your own Solar Home System".	Energy Swaraj Foundation association with AICTE	15th Sept 2020

AWARDS & ACHIEVEMENTS

NAME	EVENT	AWARDED BY	DATE
Anupama Umachagi 1CR18CS025	Code War	Coding Ninja/CMRITA/CODI NG NINJA/COUNTRY	2 Sept 2020
Apurva Kumar Gupta (1cr18cs028)	Ami-techfiesta 2k20	Acc(amity University)	29,30 Aug 2020
Deeksha D V,1cr19cs039	Short Term Course On "Learn To Design Your Own Solar Home System".	Energy Swaraj Foundation Association With AICTE	25th Sept 2020
Dr. Paras Nath Singh	Data Journalism & Data Analytics In Python	Principal-loreto College, Kolkata	July 2020
Dr. Paras Nath Singh	MOOC- C++ For C Programmers	Coursera Sponsored By CMRIT - UC, SC	Jun-july-2020
Dr. Paras Nath Singh	Climaboat, E-yantra, litb, Mumbai	VC, KR Mangalam University	31-08-2020
Dr. Paras Nath Singh	Successful Translation Translation Of litk Lectures Of DBMS - Status Published On Web Of NPTEL	IIT, Kharagpur, NPTEL, Swayam, IIT Chennai	26/8-4/9/2020
Dr. Paras Nath Singh	Reviewer Of IEEE Confernece Papers	Easy Chair-iraq & USA Papers	16-sep-2020
Shalini N	Learn To Design Your Own Solar Home System	Energy Swaraj Foundation	13/09/2020
Mrs. Smitha.N	Machine Learning And Data Science	Vishwanathrao Deshpande Institute Of Technology, Haliyal, Uttara Kannada,	4/9/2020
Mrs. Smitha.N	Python And Mobile App Development	HKBK College	3/9/2020 - 8/9/2020

AWARDS & ACHIEVEMENTS

NAME	EVENT	AWARDED BY	DATE
Mrs. Poonam Tijare	ATAL FDP On Data Sciences	ATAL, Organised By NITK, Suratkal	21/9 To 25/9 2020
Mrs. Poonam Tijare	2 Days Webinar On National Open Workshop On Getting Aligned To The Publishing Process	Elsevier	27 And 28/09/2020
Mrs. Poonam Tijare	Presented Paper At GCICA Conference	Gcica	8th Sept 2020
Sourita Poddar 1cr18cs162	Pydef	ACE Club, CMRIT, Karnataka, India	28/09/2020
Preethi S H	Hackerrank Problem Solving(basic)	Hackerrank	15/09/2020
S Sridhar, 1CR18CS194	Certification In Problem Solving	Hacker Rank	9/18/2020
Ananyanarayan koderi 1CR18CS021	Web It Out	Coding Ninjas	9/28/2020
S Sridhar, 1CR18CS194	Certification In Python Basic	Hackerrank	9/26/2020
Ananya Narayan Koderi 1CR18CS021	Hackerrank C Basic	Hackerrank	9/15/2020
Ananya Narayan Koderi 1CR18CS021	Hackerrank C Intermediate	Hackerrank	9/15/2020
Ananya Narayan Koderi	Introduction To Git And Github	Coursera	9/27/2020
Aparanji (1CR17CS195)	Zenken Group Discussion For Craft Work	Zenken Group	29/9/2020
Samriddhi Paul 19cs146	Code Fiesta	Hackerearth Club	29th August 2020

AWARDS & ACHIEVEMENTS

NAME	EVENT	AWARDED BY	DATE
Dr. Paras Nath Singh	Quize Big Data Analytics Series-1	HKVK, Bengaluru	01-aug-2020
Dr. Paras Nath Singh	Quize Big Data Analytics Series-2	HKVK, Bengaluru	01-aug-2020
Dr. Paras Nath Singh	Quiz On Control Systems	SBIST, Khammam	01-aug-2020
Dr. Paras Nath Singh	Webinar To National Children Science Congress, Dept Of DST, GOVT Of India	NCSC, Muzaffarpur	23-aug-2020
Dr. Paras Nath Singh	International Quiz On Computer Organization & Architechture	SCCE, Nagarcoil, Kanyakumari	August, 2020
Priyanka M K	Code For Change	Cybernauts Club, CMRIT, Bangalore	August 23rd, 2020
Sourita Poddar	Code Fiesta	Hackerearth, CMRIT	29-8-2020
Anandarshan Hebbali	Code For Change	Cybernauts Club, CMRIT, Bangalore	August 23rd, 2020
Bharath J	Code For Change	Cybernauts Club, CMRIT, Bangalore	August 23rd, 2020
Sourita Poddar	Mind Picto	Mindspark Club, CMRIT	9-aug-2020
Sourita Poddar	Envisage, The Web Hunt	Cybernauts Club, CMRIT, Bangalore	15-aug-2020
C.K.Amrutha, 1cr19cs032	Game Of Threads	Codechef Cmrit	August 2020
Savitha N J	Peer Recognition And Letter Of Appreciation	Cmrit	29/08/2020
Deepu M	Envisage,the Online Web Hunt	Cybernauts Club	15/8/2020
S.Aarthi	Python Series-1 Quiz	HKBK College	July 2020

AWARDS & ACHIEVEMENTS

NAME	EVENT	AWARDED BY	DATE
S.Aarthi	PYTHON SERIES-2 QUIZ	HKBK college	July 2020
DEVADATHAN MENON	Smart India Hackathon	Smart India Hackathon	March 2020
Suhas S Reddy - 1CR18CS165	Code Fiesta	Hackerearth - CMRIT	8/29/2020
Manoj Challa	Peer recognition and letter of appreciation	CMRIT	29/08/2020
Poonam	Peer recognition and letter of appreciation	CMRIT	29/08/2020
Anil	Peer recognition and letter of appreciation	CMRIT	29/08/2020
Dr. Paras Nath Singh	Upgradation Of Members	IEEE Chair	07-oct-2020
Sherly Noel	Department - Star Performer	CSE Department - Dr.P.N.Singh	03-10-2020
Disha Hati(1cr19cs050)	International Youth Math Challenge	lymc	19th Oct 2020
Disha Hati(1cr19cs050)	Hacktober Fest	Digital Ocean	19/10/20
Sakshi Raina (19cs145)	ML Initiator Python Challenge	Cmrit	Sep 30 , 2020
Sakshi Raina (19cs145)	Improv 2.0 (Theater Club)	Cmrit	Oct 5th, 2020
Ankit Yadav 1CR18CS023	October Rumble	Geekforgeeks, CMRIT Club	10/15/2020
Ankit Yadav 1CR18CS023	Coders Premier League	Coding Nijas Club, CMRIT	10/19/2020
Sourita Poddar 1CR18CS162	Crossword.Py	Ace Club, Cmrit	10/22/2020
Anandarshan K Hebballi 1CR18CS020	Imarticus Data Science Hackathon	Imarticus, VTU Placement Cell	10/20/2020

AWARDS & ACHIEVEMENTS

NAME	EVENT	AWARDED BY	DATE
Ananya Narayan Koderi 1CR18CS021	Hackathon On Data Science	VTU Central Placement Cell	10/20/2020
Ananya Narayan Koderi 1CR18CS021	Crossword.Py	Ace Club	10/22/2020
Ananya Narayan Koderi 1CR18CS021	Coding Event	Taq Club	10/20/2020
Dr. Paras Nath Singh	IEEE - Upgradation	IEEE	07-oct-2020
Dr.Kavitha.P	Online FDP On Recent Advancements In Machinelearning And Artificial Intelligence 2-6 November 2020	SRM University,ap	06.11.2020
Dr.Kavitha.P	Aicte -Fdp	CMRIT-ISE Dept	04.11.2020
Sakshi Raina	Theater Event: Emotion Quadrant - AURA	Cmrit	25/11/2020
Pratik Mukesh Bharuka	Accelathon 2.0 - Inter College Online Hackathon	Bangalore Chamber Of Industry And Commerce (BCIC)	30/11/2020
Yashwanth Jain	Accelathon 2.0 - Inter College Online Hackathon	Bangalore Chamber Of Industry And Commerce (BCIC)	30/11/2020
Vaishnavi Patil	Accelathon 2.0 - Inter College Online Hackathon	Bangalore Chamber Of Industry And Commerce (BCIC)	30/11/2020
Arpan Abhishek	Accelathon 2.0 - Inter College Online Hackathon	Bangalore Chamber Of Industry And Commerce (BCIC)	30/11/2020

AWARDS & ACHIEVEMENTS

NAME	EVENT	AWARDED BY	DATE
P. Meera Krishna	Accelathon 2.0 - Inter College Online Hackathon	Bangalore Chamber Of Industry And Commerce (BCIC)	30/11/2020
Disha Hati, 1CR19CS050	Best Out Of Waste	Cmrit	27/11/2020
Disha Hati, 1CR19CS050	Emotional Quadrant	Cmrit	27/11/2020
Gayathri V Shenoy, 1cr19cs061	Indian Dance(solo)	Cmrit	27/11/2020
Kiran Babu	Star Peformer	CSE Dept, cmrit	04/11/2020
Shivaraj	Star Peformer	CSE Dept, cmrit	04/11/2020
Savitha N J	Star Peformer	CSE Dept, CMRIT	18/12/2020
Rubini P E	Star Peformer	CSE Dept, CMRIT	18/12/2020
Poonam Tijare	"Various Efficient Online Tools And Best Practices For Effective Teaching"	Iqac, cmrit	18/12/2020
1cr19cs146 Samridhi Paul	Workshop :Data Science Using Python	Cmrit	December 2020
1cr19cs149 Sahil Kashyap	Quiz On Python	Cmrit	19th December
Dr. Jhansi Rani P	Best Paper Award	IEEE Third International Conference On "Multimedia Processing, Communications And Information Technology" MPCIT-2020	12 Dec 2020

AWARDS & ACHIEVEMENTS

NAME	EVENT	AWARDED BY	DATE
Rucha Patani	AICTE Sponsored Int. Econference ICDIIS'20	AICTE Sponsored Int. Econference ICDIIS'20	11-12 Dec 2020
Dinesh	Quiz On Python	Cmrit	19th December
Kirti 1CR18CS087	Dsa Combat:girlsript By Cmrit	Cmrit	7 Dec 2020
Tushar Goyal1cr18cs174	Third Place In Pi- quiz	Cmrit	28/12/2020
Anupama Umachagi 1CR18CS025	Ninja Hire Junior 2.0	Coding Ninja, India	12/2/2020
Ananya Narayan Koderi 1CR18CS021	A Quiz On Python	CSI Professional Body,cmrit	12/19/2020
Kirti 1CR18CS087	A Quiz On Python	CSI Professional Body,cmrit	12/19/2020
Tasmia Firdose 1CR18CS168	A Quiz On Python	CSI Professional Body,cmrit	12/19/2020
Kaushiki Kamana 1CR18CS084	A Quiz On Python	CSI Professional Body,cmrit	12/19/2020
Tushar Goyal1cr18cs174	Take A Bow Productions(theatre Club)		
Anandarshan K Hebballi 1CR18CS020	Accelathon Hackathon	Bcic	12/12/2020
1CR19CS032, C K Amrutha	30days Web Development Program Organised By DSC	Dsc	
1cr19cs045, Druthi H H	30days Web Development Program Organised By DSC	Dsc	

AWARDS & ACHIEVEMENTS

NAME	EVENT	AWARDED BY	DATE
Pratik Mukesh Bharuka	National Level Online Hackathon	BCIC Karnataka	1/12/2020
Yashwanth Jain	National Level Online Hackathon	BCIC Karnataka	1/12/2020
Vaishnavi Patil	National Level Online Hackathon	BCIC Karnataka	1/12/2020
Arpan Abhishek	National Level Online Hackathon	BCIC Karnataka	1/12/2020
P. Meera Krishna	National Level Online Hackathon	BCIC Karnataka	1/12/2020
Arpan Abhishek	CoronaSafe Engineering Fellowship	AICTE	12/1/2020



INDUSTRY CONNECT ACTIVITIES ORGANISED

TOPIC: Artificial Intelligence & Machine Learning Using Python

RESOURCE PERSON: Dr. Paras Nath Singh

DATE: 10-Oct-2020

PARTICIPANTS: 6000+

TOPIC: Online Safety-Responsible online behavior

RESOURCE PERSON: JANICE VERGHESE, Cyber Lawyer & Cyber Security Specialist, Manager, Communications, and Training, Cyber Peace Foundation.

DATE: 12th Nov 2020

PARTICIPANTS: 262

TOPIC: Crash Course on Data Science using Python

RESOURCE PERSON: Dr. Jhansi Rani, Dr. Kavitha P., Dr. Rijo Tom Jackson, Dr. Preeti Sheba Hepsiba

DATE: 18th – 30th Nov 2020

PARTICIPANTS: 127

TOPIC: How Ancient Indian epistemology can influence new models of Machine Learning?

RESOURCE PERSON: Dr. Avinash Ambale

DATE: 30-12-2020

PARTICIPANTS: 50

INDUSTRY CONNECT ACTIVITIES ORGANISED

TOPIC: Fundamentals of Machine Learning and Big Data with Python

RESOURCE PERSON: Dr. Jagadishwari, Dr. Kavitha P., Dr. Rijo Tom Jackson, Prof. Rubini

DATE: 21st – 26th December 2020

PARTICIPANTS: 45

TOPIC: Microcontroller and Analog and Digital Electronics

RESOURCE PERSON: Dr. Prem Kumar Ramesh, Dr. Sreenivasa Setty (Associate Professor, Dept of ISE, DSATM Bangalore), Dr. R Anand, Mr. Chandra Kumar M (Sr. Application Engineer Altair engineering India Pvt. Ltd.), Prof Anindita Sahoo, Prof Suchi Smitha, Prof Pratham Majumder.

DATE: 20th – 25th July 2020

PARTICIPANTS: 547

STAR PERFORMERS



STAR PERFORMERS





DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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