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# DEPARTMENT VISION

Department of Computer Science and Engineering aspires to become a center of excellence for quality technical education by keeping pace with new technologies to create competent professionals.

# DEPARTMENT MISSION

**M1:** To develop professionals with analytical and technical competency for productive career in industry, academia and as entrepreneurs.

**M2:** To build theoretical and applied skills of faculty and student in computer science and engineering through need based training, research and development on industrially and socially relevant issues.

**M3:** Continuously improve and provide state-of-the-art laboratories to keep up with the new developments in the area of computer science and engineering.

**M4:** Create nurturing environment through competitive events, industry interactions, global collaborations and creating concern for lifelong learning.

# HOD'S MESSAGE



Dr. S C Gupta  
Professor &  
Head, Department of  
Computer Sc. & Engg.

“

*A Departmental Magazine is an eloquent expression of the progress and outstanding achievements that a department has to its credit. It is manual that highlight the quality of education and extra-curricular activities that a department undertakes to develops all round personality of the students. I am sure that the students of CSE department will be benefitted to a large extent by the contents of the magazine. The readers would be greatly benefitted as the contents are going to unfold for them new information on various scientific topics.*

”

# UNLEASH THE POWER OF DATA

-Dec 17,2020

Akshay heads up Data Analytics and Data Management at Fundnel. He works closely with the Product team to leverage artificial intelligence and machine learning capabilities to enhance the platform. He is also responsible for streamlining the data collection and data management strategy for Business Intelligence. Prior to joining Fundnel, he co-founded a cyber security startup which was named Top 30 Startups by Forbes India in 2016.

## Outline of the Talk:

- What data scientist do and the types of problem they solve.
- Data science workflow and see how pros identify powerful business predictions
- Key tools and processes data scientists use to analyze, visualize and model data
- Apply what you have learned to a data set produce your own recommendations

## Outcome of the Talk:

- The data Science Process
- Language Wars: Python, R, Scala Prepared By: Asst. Prof. Ms. Upasana Lakhina Page 2
- Skills needed to become a data Scientist
- Future Opportunities in Data Science

The event started at 03.00 pm with a welcome note from Asst. Prof. Upasana Lakhina, CSE. Mr. Akshay Seth was introduced to the audience and session was handed over to the speaker. He shared his knowledge in the field of data science, machine learning and artificial intelligence.

Attendees of the talk came across how the Singapore is dealing with the data sets and how data science has become an integral part of the industry culture. 80 Faculty members from the institute attended the talk and gained new understanding of the topic. There was 10 minutes session for question answers and talk was concluded with the vote of thanks from Dean Engineering Dr. Vijay Athavale.



## ABOUT THE SPEAKER



**Mr. Akshay Seth**  
**Manager, Data Science**

**Venue :** Microsoft Teams

**Date :** December 17,2020  
(Thursday), 3:00-4:00 pm

**Event Organizer :**  
Department of Computer  
Science and Engineering,  
P.I.E.T., FUNDNEL, IEEE  
Student Branch P.I.ET.,  
Institutional Innovation  
Council

**Event Moderator :**  
Assistant Professor Ms.  
Upasana Lakhina

**Topic of the talk :**  
Unleash the Power of Data



# GLIMPSE OF TALK

**WHERE IS THE DATA COMING FROM ?**

- The Internet**  
Worldwide web
  - Web searches, Website logs (pageviews, ad clicks...)
  - E-Commerce transactions
  - Emails, Blogs, Tweets, Social Media
- Growth of devices**  
Internet of Things
  - Cell phones, Barcoding, Tagging technologies (RFID, GPS,...) for logging goods, vehicles, people, operational events.
  - E.g. Singapore Smart Nation pilot – 1000 sensors in Jurong to monitor traffic, streetlights, waste bins
- Science & Research**  
Transformation
  - The Sloan Digital Sky Survey amassed more in its first few weeks (in 2000) than all data collected in the history of astronomy – 200 GB/night
- Enterprise Applications**  
Digitalization
  - Growth of deployed Enterprise Applications which collect huge amounts of enterprise data

**CATEGORIES OF ANALYTICS**

Business Analytics

Descriptive → Predictive → Prescriptive

	Descriptive	Predictive	Prescriptive
<b>Questions</b>	What happened? What is happening?	What will happen? Why will it happen?	What should I do? Why should I do it?
<b>Enablers</b>	• Business reporting • Dashboards • Scorecards • Data warehousing	• Data mining • Text mining • Web/media mining • Forecasting	• Optimization • Simulation • Decision modeling • Expert systems
<b>Outcomes</b>	Well defined business problems and opportunities	Accurate projections of the future states and conditions	Best possible business decisions and transactions

# IEEE DRIVES

-Dec 30,2020

## OUTLINE OF THE TALK:

- WHAT ROLE DOES IEEE PLAY IN THE LIFE OF A GRADUATE STUDENT?
- IEEE VISION AND MISSION FOR SETTING RESEARCH STANDARDS FOR TECHNOLOGY AND HUMANITY
- BENEFITS OF IEEE MEMBERSHIP FOR INSTITUTE AND STUDENT
  - LIFE AS AN IEEE MEMBER

## OUTCOME OF THE TALK:

- INTERACTION WITH STUDENTS AS AN IEEE MEMBER
- CURRENT TECHNOLOGY AND RESEARCH OFFERED BY THIS INTERNATIONAL PLATFORM
  - SKILLS NEEDED TO BECOME A PROFESSIONAL
- FUTURE OPPORTUNITIES AS MEMBER OF AN IEEE SOCIETY.

The event started at 12.00 pm with a welcome note where speaker Ms. Upasana Lakhina and IEEE chair Prof. Dr. Anju Gandhi was introduced to the audience and session was handed over to the speaker. She shared her knowledge with the students and faculty about IEEE. Attendees of the talk came across how the IEEE has evolved in past years and has become an integral part of the industry and research culture. 151 Faculty members and Students from the institute attended the talk and gained new understanding of the organization out of which more than 80 has shown their interest of being a part of the Student Branch.

There was 15 minutes session for question answers and talk was concluded with the vote of thanks from Dean R&D Prof. Dr. Anju Gandhi.

## ABOUT THE SPEAKER



**Ms. Upasana Lakhina,**  
**Assistant Professor,**  
**C.S.E**

**Venue :** Microsoft Teams


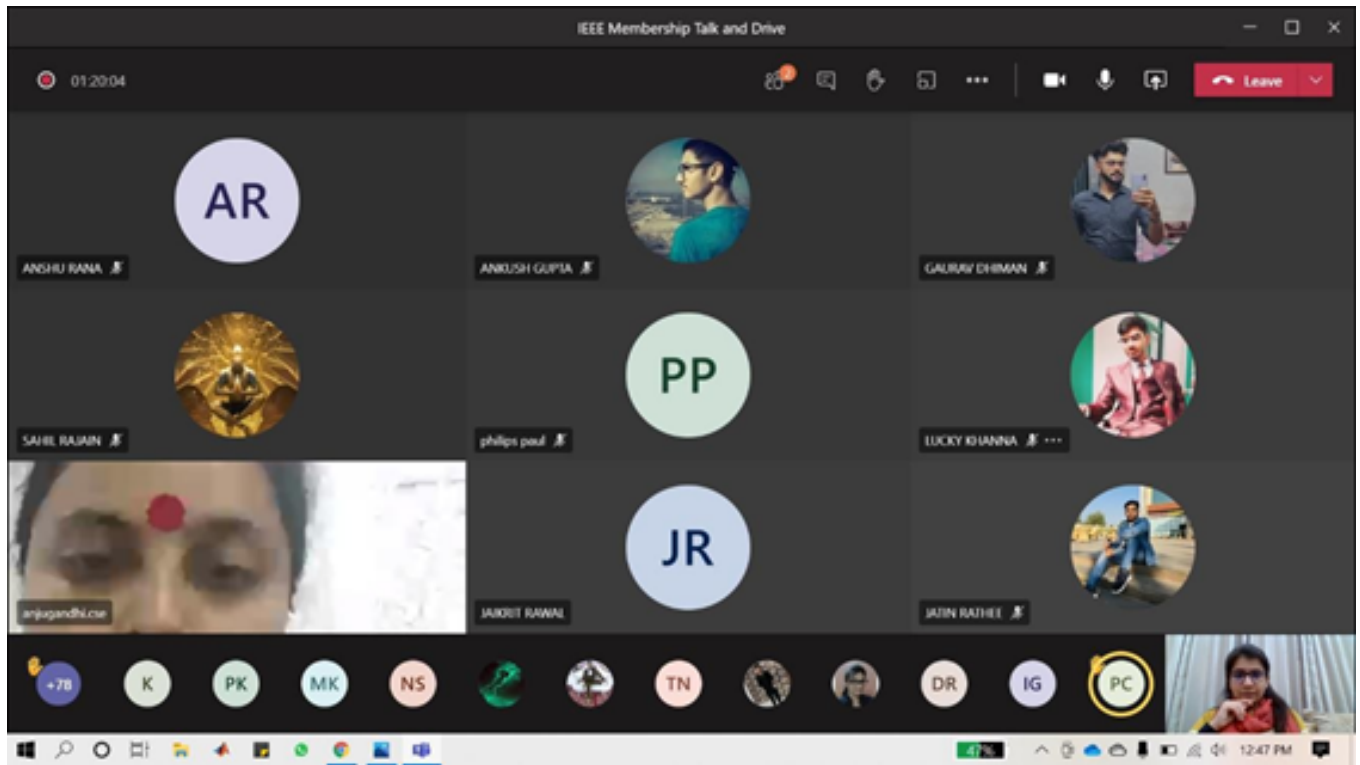
**Date :** December 30,2020  
(Wednesday),  
12:00-01:00 pm

**Event Organizer :**  
Department of Computer  
Science and Engineering,  
P.I.E.T., IEEE Student Branch  
P.I.E.T., Institutional  
Innovation Council Event

**Speaker :** Assistant Professor  
Ms. Upasana Lakhina

**Topic of the talk :** IEEE  
Membership Talk and Drive

# GLIMPSE OF TALK



## How it help us ?

- WORK TOGETHER IN WORKSPACES
- MEET TECHNOLOGY PROFESSIONALS
- JOIN AND PARTICIPATE WITH EXTRA BENEFITS

Create, organize, share, and collaborate virtually on projects or articles by creating a workspace where you have the option to invite selected individuals or allow anyone to discover and join.

12:12 PM



# PATENTS IN OUR COLLEGE 2020

- Shakti, Harish Kumar Saini, Deepak Kumar Wadhwa, Suresh Chand Gupta

## **SMART WEARABLES TO PREVENT ROAD ACCIDENTS AND ENVIRONMENT HAZARDS**

201911042241

15-11-2019

- Anju Bhandari Gandhi, Arun Rana, Deeapk Kumar Wadhwa, Shally Nagpal,

Rahul Kaushal, Dr. S. C. Gupta, Sumit Rana, Swati Gupta

## **SMART GARBAGE MONITORING SYSTEM USING IOT USING RASPBERRY PI WITH PI**

### **CAMERA**

202011004634

03-02-2020

- Anju Bhandari Gandhi, Arun Rana, Anshul Rani, Shivani Gaba, Deepak

Kumar Wadhwa

## **LOW-K SIDE-WALL SPACER BASED INNER GATE ENGINEERED JUNCTIONLESS SILICON**

### **NANOTUBE FET**

202011033495

05-08-2020

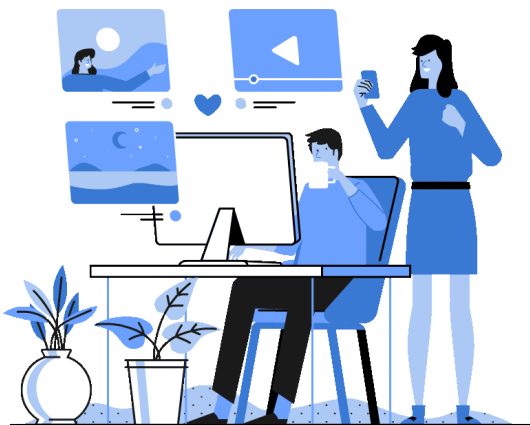
- Vijay Anant Athavale

## **A TECHNIQUE FOR TRAFFIC PREDICTION AND CONGESTION CONTROL IN IOT NETWORKS**

### **USING MACHINE LEARNING**

2020102637

11-11-2020



# EDITOR'S DESK



*"Teachers can open the doors, but you must open it yourself."*

**-Ms. Anoop Arya, CSE  
Assistant Professor  
CSE**



*With new problems, comes new opportunity to learn.*

**-Pratikshit Gupta  
Btech(CSE)  
3rd Year**