

# IT GAZETTE

2020-21  
Jan Issue 8

## COMPUTER SCIENCE & ENGINEERING

Jyothy Institute of Technology, Thathaguni, Bengaluru - 560082

Website: <http://jyothyit.ac.in/computer-science-engineering-colleges-bangalore.html>

Email: [hod.cse@jyothyit.ac.in](mailto:hod.cse@jyothyit.ac.in)

Contact: 9449712002

### INSIDE THIS ISSUE

1. About
2. Achievements
3. Events

**"Computer science inverts the normal. In normal science, you're given a world, and your job is to find out the rules. In computer science, you give the computer the rules, and it creates the world."**

- Alan Kay

### About CSE Department

Department of computer science & Engineering started in the year 2011 with an intake of 60 students in undergraduate program. The department has 4 doctorates and 4 pursuing PhD. Faculty and students have published papers in national/international journals and conferences. Department supports institutional level activities and interdisciplinary research activities. The department encourages the students to organize and participate in extra-curricular/sports activities. The department of computer science and engineering is guided by the principles of application of knowledge acquired in the classroom to solve the problems of the real world.

### Vision

To be a center of excellence in Computer Science and Engineering education, focus on research, innovation and entrepreneurial skill development with professional competency.

### Mission

M1 : To provide state of the art ICT infrastructure and innovative, research oriented teaching learning environment and motivation for self-learning & problem solving abilities by recruiting committed faculty.

M2 : To encourage Industry Institute Interaction & multi-disciplinary approach for problem solving and adapt to ever changing global IT trends.

M3 : To imbibe awareness on societal responsibility and leadership qualities with professional competency and ethics.



The department has adequate infrastructure and computing equipment supported by high speed Ethernet and wireless networks. The department has a CSI student chapter. The department conducts subjects with more of hands-on sessions and encourages students to take up MOOC based online courses in NPTEL, Coursera, Udacity. The department has classrooms equipped with projectors and internet. The department also has a Seminar Hall equipped with Wacom device. There are well equipped laboratories, industry based labs to emphasis on holistic learning of students.

#### Department Achievements

1. Accredited by NBA for 4 years.
2. Faculty members and students are working on funded projects from KSCST, VGST, DST, ISRO and other state and central funding agencies.
3. Students have participated in various national and international technical/cultural/sports events and have received several awards.

**“Never stop fighting until you arrive at your destined place - that is, the unique you. Have an aim in life, continuously acquire knowledge, work hard, and have perseverance to realize the great life.”**

**- A. P. J. Abdul Kalam.**



## Guest Lecture on “Future of AI and ML”

*By Dr. Geetha Prakash, Director, Industry Institute Interaction Cell, Global Academy of Technology*

The event held on **15-10-2020** for 5<sup>th</sup> CSE/ISE students more than 90 students participated in the webinar.

The objective of the webinar was to bring awareness regarding the future of AI/ML and need for AI/ML from the industry perspective among the budding engineers.

The webinar included the explanation of the basic of AI/ML, what is AI and need of ML? Concepts like Concepts of supervised, unsupervised, clustering methods and deep learning methods. The students were excited to applications of AI/ML in various applications like chat bot, siri, alexa and much more.

The intended outcome of the webinar was to make the students aware of the upcoming trends in AI/ML and how industry is changing towards use of AI/ML.

## ATAL FDP on “Deep Learning & It’s Application”

*By Dr.S.Balaji, Professor, CIIRC/Jyothy Institute of Technology, held on 11/9/2020*

The objective of the FDP is to introduce fundamentals of machine learning, Deep learning models and implementations of Deep learning models with their real time applications. This FDP will cover complete understanding of Deep Learning concepts with theory & hands on sessions.

Deep learning hands on Implementation will cover:

- Machine learning models
- Deep learning models
- Application of Deep learning models.
- Recent trends in Deep learning models.

Overall, this FDP will serve as a great opportunity for faculty and researchers to upgrade their knowledge in Blockchain technology.



## Webinar on “Artificial Intelligence using MATLAB”

By Mr. Rakshith B S is the Senior Application Engineer and Mr. Shashi Kumar JK is the Application Engineer for Mathworks products at CoreEL Technologies, Bengaluru

Artificial intelligence, or AI, is a simulation of intelligent human behavior. It's a computer or system designed to perceive its environment, understand its behaviors, and take action. Consider self-driving cars: AI-driven systems like these integrate AI algorithms, such as machine learning and deep learning, into complex environments that enable automation.

This webinar held on 21/7/2020, more than 90 students were participated. Topic covered in a webinar are

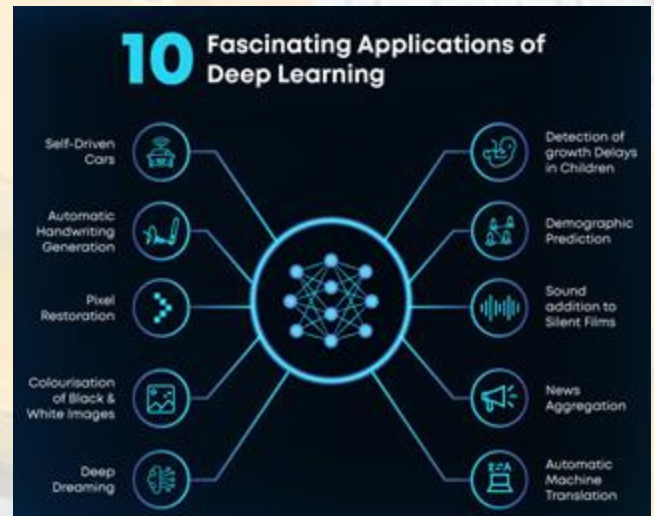
- Exploring Datasets
- Classification Methods
- Visualize Decision Surfaces
- Classification Learner App
- Regression Methods
- Regression Learner App
- Working with Pre-trained Networks
- Working with Collections of Data
- Creating Networks from Scratch
- Deep Network Designer App
- Performing Transfer Learning

Engineers use MATLAB deep learning capabilities for automated driving, computer vision, speech and natural language processing, and other applications. Deep Learning Toolbox™ lets you create, interconnect, train, and evaluate the layers of a deep neural network.

## Webinar on “Alexa, do I need an Umbrella Today? – A Brief introduction to deep learning: Scope and Opportunities”

By Shashank Lakshman, Micro Technology, held on 13/7/2020

Deep Learning is a subset of machine learning in AI that has networks capable of learning unsupervised from data that is unstructured or unlabeled. Also known as deep neural learning or deep neural networks. 56 students participated in the webinar.



## Webinar on “Industry 4.0 – Digitalizing from Product Development through Manufacturing – a cross domain engineering trend”

By Srinath Koppa, held on 04/7/2020

Industry 4.0 is revolutionizing the way companies manufacture, improve and distribute their products. Manufacturers are integrating new technologies, including Internet of Things (IoT), cloud computing and analytics, and AI and machine learning into their production facilities and throughout their operations.

