## Topics to be covered:

Trends and Opportunities in Machine Learning & Artificial Intelligence
Python for Machine Learning
Hands on session on Tools, Platform and Framework for ML/AI
Introduction to Machine Learning Life Cycle
Introduction to Preprocessing
Introduction to Supervised Learning Techniques
Case Study on Regression
Case Study on Classification
Introduction to Unsupervised Learning Techniques
Introduction to Clustering
Hands on session on Case Study on Clustering
Introduction to Dimensionality Reduction
Hands on session on Case Study on Dimensionality Reduction
Artificial Neural Network & Case Study
Introduction to Natural Language Processing
Case Study on NLP
Introduction to Computer Vision
Case Study on CV

## Resource Persons:

**Dr. Vinith R.** (Postdoctoral Fellow, Amrita Viswha Vidyapeedham, Coimbatore)
**Dr. Sreekanth D.** (Head, Solutions & Research Dept., ICT Academy of Kerala)
**Mr. Unnikrishnan P.** (Research Scholar, NIT Calicut)
**Mr. Ummar Shaik** (Solutions Architect Data Science, Reflections Info Systems, Technopark)
**Mr. Abhimanyu K. S.** (AI Consultant, QuEST Global, Technopark)

## Organizing Committee

Chief Patron: **Msgr. Jose Konnikkara**
Patrons: **Rev Fr. Thomas Kakkassery, Rev Fr. Jose Kannampuzha**
Organizing Chairman: **Dr. Sunny Joseph Kalayathangal,** Principal, **Dr. V. M. Xaviuor,** Registrar
Coordinator: **Dr. Swapna B Sasi,** Associate Professor, Computer Science & Engineering
Executive Committee:
**Prof. Ratnan P.** (Vice Principal)
**Dr. Jose P Therattil** (Centre Coordinator)
**Dr. Vijayakumar R**(Professor, Computer Science & Engineering)
**Dr. Saju P John** (Professor & Head, Computer Science & Engineering)

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www.jecc.ac.in

# Jyothi Engineering College

NAAC Accredited College with NBA Accredited Programmes*
Approved by AICTE & affiliated to APJ Abdul Kalam Technological University
A CENTRE OF EXCELLENCE IN SCIENCE & TECHNOLOGY BY THE CATHOLIC ARCHDIOCESE OF TRICHUR
JYOTHI HILLS, VETTIKATTIRI P.O, CHERUTHURUTHY, THRISSUR, PIN-679531 PH : +91- 4884-259000, 274423 FAX : 04884-274777
NBA accredited B.Tech Programmes in Computer Science & Engineering, Electronics & Communication Engineering, Electrical & Electronics Engineering and Mechanical Engineering valid for the academic years 2016-2022. NBA accredited B.Tech Programme in Civil Engineering valid for the academic years 2019-2022.

## FACULTY DEVELOPMENT PROGRAMME

(OFFLINE MODE)

# Machine Learning : A Trajectory through The World of Adaptive Algorithms

Sponsored by
**APJ Abdul Kalam Technological University**
Trivandrum, Kerala

22nd to 26th August 2022

Organized by
Department of Computer Science & Engineering
Jyothi Engineering College, Thrissur
in association with
ICT Academy of Kerala

## About the Institution

Jyothi Engineering College (JEC) set up in 2002, under the aegis of Thrissur Educational Trust, founded by the Catholic Archdiocese of Trichur, is a leading engineering college in Kerala. The Archdiocese of Trichur has an illustrious track record of a century and a quarter in the education sector. We at Jyothi Engineering College are aware that our stakeholders, including students and recruiters, look for reliable information on quality education offered. Jyothi Engineering College is a NAAC accredited institution with 'A' Grade, affiliated to APJ Abdul Kalam Technological University, Kerala. The NAAC instrument is developed to objectively assess and grade institutions of higher education. Five of the undergraduate programs offered by Jyothi Engineering College have NBA accreditation, which indicates that we are well recognized for the quality of education we offer. We are periodically evaluated for this stringent NBA accreditation criteria to ensure we sustain the mandated quality levels.

The worlds of study and work have changed dramatically. Students of today require different sets of skills than those of previous generations. We are in the midst of the fourth industrial revolution and the predictions are that 85% of the jobs that will exist in 2030 have not been invented yet. JYOTHI hence prepares students to become T-Shaped professionals, i.e., professionals who have in-depth expertise in their discipline as well as a breadth of competencies required in the twenty-first century. Industry seeks engineers with these skills. In order to train our students to become "T" shaped professionals, so that they are "future ready", we have set up an incubation centre, Integrated Industrial Incubation Centre (IIIC), in association with TATA Technologies.

In order to help students become "job creators" rather than "job seekers", Jyothi Engineering College has also set up a Technology Business Incubator, JEC TBI, to create technology based new enterprises, foster an entrepreneurial spirit among students and commercialize R&D output. Additionally, Jyothi Engineering College offers a vibrant, beautiful, and green environmentally friendly campus, and excellent infrastructure for students, to aid the teaching and learning process. For more information visit www.jecc.ac.in

## About the Department

The Department of Computer Science and Engineering, has a strong team of faculty with high orientation towards research, offers Bachelors and Masters programmes in Computer Science . The department offers an intellectually stimulating learning environment and encourages mentoring of the students by its competent faculty members. The department aims to be an intellectually vibrant learning centre focused on quality education and multidisciplinary research with a view to prepare young, creative and entrepreneurial minds to lead the technological and economic change in the region.

## Vision

Creating ethical leaders in the domain of Computational Sciences through quality professional education with a focus on holistic learning and excellence



## Mission

To create technically competent and ethically conscious graduates in the field of Computer Science and Engineering by encouraging holistic learning and excellence.

To prepare students for careers in Industry, Academia and the Government.

To instill Entrepreneurial Orientation and research motivation among the students of the department.

To emerge as a leader in education in the region by encouraging teaching, learning, industry and societal connect.


### Eligibility

Faculty Members from Colleges affiliated to APJ Abdul Kalam Technological University are eligible to attend the programme

Participation certificate will be awarded on successful completion

### Registration

No Registration fee

SCAN ME

Registration Link

https://tinyurl.com/Jecfdp

*Last date for Registration: 12.08.2022*

*Notification of selection :16.08.2022*

## About the programme

The broad objective of this Faculty Development Program is to introduce the Trends and Opportunities in Machine Learning & Artificial Intelligence and to impart expertise in one of the most fascinating and fastest growing areas of Computer Science AI approaches are widely employed in a variety of applications, including Biometrics, Medical Imaging Processing, Natural Language Processing, and in industry, defence, healthcare, agriculture and many other areas.This course will cover the fundamentals of AI and how they apply to various research applications.It would assist in improving the skills and capabilities of faculty members at various engineering universities in India, as well as creating an environment conducive to research and academic success. The goal of the course work is to teach theoretical foundations of artificial intelligence and to provide hands-on training based on the latest AI tools to the audience.