



DEPARTMENT OF  
**ARTIFICIAL INTELLIGENCE &  
DATA SCIENCE**



**Sairam**  
INSTITUTIONS



**ISTE SPONSORED**

**VIRTUAL 5 DAYS FDP**

# DEEP LEARNING AND ITS APPLICATIONS

**11.07.2022 - 15.07.2022**



*Sri*

**SAI RAM  
ENGINEERING COLLEGE**

*An Autonomous Institution*

West Tambaram, Chennai - 44

[www.sairam.edu.in](http://www.sairam.edu.in)



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## ABOUT THE INSTITUTION

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Sri Sairam Engineering College, Chennai was established in the year 1995 by Philanthropist, Educationist and Industrialist, MJF.Ln.LeoMuthu, Chairman of Sapthagiri Educational Trust, a non profitable, and non-minority institution. The college is situated among sylvan surroundings in an area of more than 100 acres at Sai Leo Nagar, near the Kishkinta amusement park. The college offers eleven B.E. / B.Tech., Undergraduate Degree programmes and six Post Graduate Degree programmes. The College is ISO 9001:2015 certified, NBA, NIRF ranked and NAAC accredited, an Autonomous Institution affiliated to Anna University and approved by All India Council for Technical Institution. The Institution has well established infrastructure facilities, well equipped laboratory, Fully Air-conditioned College Library, and state of the art Indoor stadium with seating capacity of more than 5000 people. A well-defined vision, highly committed mission and dedicated leadership facilitate Sri Sairam Engineering College to be one of the best educational institutions in the country.

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## ABOUT THE DEPARTMENT

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The Department of Artificial Intelligence and Data Science, one of the emerging areas out of 10 special categories identified by AICTE and MHRD which can meet the upcoming requirements of Industrial Revolution, joined the fleet of Sri Sai Ram Engineering College during the academic year 2020-2021. The success of future professionals in technology, business, and research careers depends heavily on mastering Artificial Intelligence, Data Science and emerging technologies of tomorrow.

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## VISION

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To emerge as a “Centre of Excellence in the field of Artificial Intelligence and Data Science”, The Department is committed to inculcate discipline, offering best Technical Education and Research Opportunities and ethically strong to meet the global challenges, who in turn shall contribute to the advancement and welfare of the society.

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## MISSION

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- To produce students with a sound understanding of the fundamentals of the theory and practise of Artificial Intelligence, Machine Learning and Data Science.
- To enable students to become leaders in the Industry and Academia Nationally as well as Internationally
- To meet the pressing demands of the nation in the areas of Artificial Intelligence and Data Science.

## ABOUT THE PROGRAMME

Deep learning is a machine learning technique that teaches computers to do what comes naturally to humans: learn by example. Deep learning is a key technology behind driverless cars, enabling them to recognize a stop sign, or to distinguish a pedestrian from a lamppost. It is the key to voice control in consumer devices like phones, tablets, TVs, and hands-free speakers. Deep learning is getting lots of attention lately and for good reason. It's achieving results that were not possible before. In deep learning, a computer model learns to perform classification tasks directly from images, text, or sound. Deep learning models can achieve state-of-the-art accuracy, sometimes exceeding human-level performance. Models are trained by using a large set of labelled data and neural network architectures that contain many layers. Deep learning is a specialized form of machine learning. A machine learning workflow starts with relevant features being manually extracted from images. The features are then used to create a model that categorizes the objects in the image. With a deep learning workflow, relevant features are automatically extracted from images. With this intention, this Faculty Development Program will focus on delivering expert talks and knowledge sharing from the eminent speakers from various universities and industries. This will make participants familiar with Deep Learning concepts and how it can be applied in various fields.

## Honourable Speakers



**Dr. D. Usha**

Associate Professor, Dept of CSE  
Dr.M.G.R. Educational and  
Research Institute

**Introduction About Machine Learning,  
Types of Learning Algorithms**



**Dr. Golda Dilip**

Associate Professor  
SRM Institute of Science and  
Technology, Chennai

**Un Supervised Learning Methods,  
Partitioned And Hierarchical  
Clustering Methods**



**Dr. S. Sankari**

Professor, Dept. of IT  
Sri Sairam Engineering College

**Bayesian Learning, Decision Tree Based  
Classification Methods**



**Dr. A. Kalaivani**

Professor Dept- information technology  
Saveetha School Of Engineering,  
Chennai

**Hands On To Implementation of Supervised  
And Unsupervised Methods**



**Dr. V. Sellam**

Assistant Professor, Dept of CSE  
SRMIST, Ramapuram

**Support Vector Machine  
Classification And Application**



**Dr. A. Senthilselvi**

Associate Professor, Dept of CSE  
SRMIST, Ramapuram

**Neural Networks And  
Practical Implementations**



**Dr.Soma Prathibha**  
Associate Professor, Dept. of IT  
Sri Sairam Engineering College

Introduction To Deep Learning Methods  
And Applications



**Mr U Jayachandiran**  
Assistant Professor,  
Dept of AI & DS  
Sri Sairam Engineering College

Generative Adversarial Networks



**Dr D Doreen Robin**  
Director, CIRF

Hands On To Implementation of  
Image Data Processing And Analysis



**Dr.S.Samundeswari**  
Associate Professor, Dept of CSE  
Sri Sairam Engineering College

Convolution Neural Networks



**Dr. A. Kumaravel**  
Professor information technology  
Bharath Institute of Higher Education  
Research, Chennai

Implementing Linear Regression and  
Logistic Regression using Numpy



**Ashvanth B**  
Technology Analyst,  
Infosys

How Analytical Method Makes  
Business Intelligent

**Dr. Swagata Sarkar**  
HOD, AI-DS

**Dr. K. Porkumaran**  
Principal

**Shri. Sai Prakash LeoMuthu**  
Chairman & CEO  
Sairam Institutions



For further details contact :

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**+91 70104 86031**



**Registration Link**

<https://forms.gle/j3EkMmEfwUrAyoo7>



**Whatsapp Link**

<https://chat.whatsapp.com/LrRjLjgFlMF8BbiSaEGxD5>