DEPARTMENT OF INFORMATION TECHNOLOGY

5-Day VAC on "Machine Learning : Hands-on Training"
July 1st to July 5th, 2024

SREENIDHI EDUCATIONAL GROUP
SREENIDHI INSTITUTE OF SCIENCE AND TECHNOLOGY AUTONOMOUS
www.sreenidhi.edu.in

ABOUT VAC

The Department of Information Technology is organizing a 5-Day Value Added Course to provide a comprehensive introduction to machine learning and its practical applications using Python. Each day focuses on key aspects of machine learning, from fundamental concepts to advanced techniques, along with hands-on exercises to reinforce learning.

OBJECTIVES OF THE COURSE

This comprehensive VAC equips participants with a solid foundation in machine learning, combining theoretical knowledge with practical experience. The course covers Python basics, Jupyter Notebooks, data analysis with NumPy and Pandas, and essential data preprocessing techniques. Participants will learn to create visualizations with Matplotlib and Seaborn, explore supervised and unsupervised learning algorithms, and dive into advanced topics like neural networks and natural language processing using TensorFlow and Keras. The workshop includes hands-on exercises and a capstone project, ensuring participants can build, evaluate, and deploy machine learning models to solve real-world problems.

Chief Patrons:
Mr. Abhijit Rao Katikaneni, CEO, SNIST
Dr. T. Ch. Siva Reddy, Principal, SNIST

Convenor:
Dr. Sunil Bhutada, HOD-IT, SNIST

Organized by:
Dr.Y.Rohita
Dr.P.N.Siva Jyothi

Course Coordinators:
Dr N.Ch.S.N.Iyengar
Dr Vijaya Lakshmi
Dr Subani Shaik
Mr.Ravinder Reddy B

TOPICS TO BE COVERED

01-07-24	Introduction to ML and Python	Supervised, Unsupervised and Reinforcement Learning with Hands-on
02-07-24	DataPreprocessing and Visualization	Hands-on Preprocessing with Pandas, Creating Visualization with Matplotlib and Seaborn
03-07-24	Regression vs classification	Implementation with Scikit-learn
04-07-24	Clustering , Dimensionality Reduction	Implementation of K-means, PCA Crossvalidation, Overfitting, Underfitting
05-07-24	Introduction to Neural Networks Implementation with Tensorflow and Keras	Implementation of Capstone Project

RESOURCE PERSONS

Faculty from Eminent Institutes and Industry Experts

VENUE

Seminar hall-1

COURSE TIMINGS

9:30 a.m. to 12:00 p.m.
1:00 p.m.to 3:00 p.m.

REGISTRATION LINK

https://docs.google.com/forms/d/e/1FAIpQLSd3p0sYjWTAqnn7PJ5IQzsm IAJffTUVVgpd9hlxl_8jVgBF1A/viewform?usp=sf_link

ATTENDEES

B.Tech III YR II SEM