Sri Sai Vidya Vikas Shikshana Samithi ®
SAI VIDYA INSTITUTE OF TECHNOLOGY
Approved by AICTE, New Delhi, affiliated to VTU, Recognized by Govt. of Karnataka.
Accredited by NBA, New Delhi (CSE, ECE, ISE), NAAC – "A" Grade
DEPARTMENT OF CSE (Artificial Intelligence & Machine Learning)
RAJANUKUNTE, BENGALURU – 560 064, KARNATAKA
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Date: 17/02/2025

REPORT ON

SKILL DEVELOPMENT PROGRAM ON

EXPLORATORY DATA ANALYSIS FOR MACHINE LEARNING

Sri Sai Vidya Vikas Shikshana Samithi ®
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Resource Person
Mr Raghu Prasad Konandur,
FOUNDER & CEO ,
KAUSHALYA TECHNICAL TRAINING AND CONSULTANCY SERVICES, Bengaluru

Kaushalya
Skill . Up-Skill . Re-Skill

Objectives

- To equip students with an adept understanding of Exploratory Data Analysis using Python.
- To provide a comprehensive induction into essential tools and techniques for data manipulation and visualization using Python.
- To equip learners with the skills necessary to work effectively with data and derive actionable intelligence to build Machine Learning Models.

Outcomes

- Comprehensive understanding of Data Analysis with Python libraries Hands-on experience and exposure to Machine Learning applications mirroring industry requisites .
- Enhanced problem-solving skills through practical assignments and project-based learning.

12th Feb,2025

Day 1: Introduction to Data Analytics,Setting Up the Environment, Working with Python for Data Handling Basics and Advanced,Hands on session and assignment

13th Feb,2025

Day 2: Introduction to Numpy, Built-in functions of Numpy, Introduction to MatplotLib,Exploring different type of plots, Hands-on session and assignment

14th Feb,2025

Day 3: Working with real world example using kaggle , Assessment MCQ and Programming test

The Skill Development Program on Exploratory Data Analysis for Machine Learning was organized by the Department with the goal of this workshop is to equipping students with in-demand skills in the field of Exploratory Data Analysis using Python. With the rapid advancements in technology, the program aimed to bridge the gap between academic knowledge and practical industry requirements by offering students a comprehensive understanding of Machine Learning techniques.

Through a carefully designed project-based approach, participants were given the opportunity to explore real-world datasets and develop hands-on expertise in performing exploratory data analysis (EDA) for machine learning. The program included a series of expert-led sessions, interactive tutorials, and workshops, covering topics such as data preprocessing, feature engineering, data visualization, and the use of EDA techniques to understand and prepare data for machine learning models.

The program not only enhanced the technical skills of students but also fostered problem-solving and critical thinking abilities by encouraging them to work on innovative projects. This initiative provided a platform for students to explore career opportunities in ML, preparing them for future challenges in research and industry. The program received an overwhelming response, demonstrating the growing interest in Machine Learning among students and the department's proactive role in promoting technological advancements.

Participants:

Total No. of Students: 120

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Faculty Coordinators

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