Sreenivasa Institute of Technology and Management Studies (Autonomous)-Chittoor - 517127

Department of Computer Science and Engineering (Data Science)

WORKSHOP ON INTRODUCTION TO APACHE SPARK

Date: 22-02-2025

Introduction: Apache Spark is an open-source, distributed computing system designed for fast and efficient big data processing. It provides an easy-to-use interface for large-scale data analytics and is known for its speed, scalability, and ease of use. Spark supports multiple programming languages, including Python (PySpark), Scala, Java, and R.

The resource person, Dr. T. Vivekanandan, began the morning session with an **introduction to Big Data Analytics**, explaining its significance in handling large-scale data. He then discussed the **types of big data** and their **characteristics of big data**. Following this, he introduced **YARN (Yet Another Resource Negotiator)** and explained its role in **big data processing**, particularly how it enhances resource management and job scheduling in distributed computing environments.

After covering the fundamentals of big data, the Afternoon session transitioned into **Apache Spark**, The Resource person provided a detailed explanation of **RDDs (Resilient Distributed Datasets)**. And how RDDs work, their significance in distributed data processing, and how they enable **fault tolerance and parallel execution**. Additionally, he explained **Transformations and Actions**, highlighting their role in data processing workflows. The session also included practical insights on working with RDDs, demonstrating how **Transformations (such as map, filter, and reduceByKey) and Actions (such as collect, count, and take)** help in efficient data manipulation. These topics provided a strong foundation for understanding **Spark's capabilities and its advantages over traditional big data frameworks**.

Speaker Details : Dr. T. Vivekanandan Associate professor, Apollo University

Co ordinator : Mr A. Srinivasan, Associate professor &HOD CSE-DS

Date : 22-02-2025

Target Audience : III CSE-Data Science Students

Organized By : CSE-Data Science Department

S I T A M S
One Day
Workshop
on
Introduction to
Apache
Spark
CSE(DS) & MCA
INTRODUCTION TO APACHE SPARK
VENUE: SATYA KESHAV GALLERY
SITAMS

S I T A M S
Data Processing Techniques for Big Data

Sreenivasa Institute of Technology and Management Studies (Autonomous)-Chittoor - 517127

Department of Computer Science and Engineering (Data Science)

WORKSHOP ON INNOVATIVE PROJECT DEVELOPMENT

HANDSON TRAINING

Date:08-02-2025

Introduction: The CSE-DS & MCA Department of SITAMS organized a one-day workshop on "Innovative Project Development: A Hands-on Training" via Google Meet on February 8, 2025, at Seminar Hall 409, 3rd floor, CSE & MCA Block. The workshop aimed to provide practical exposure to students on innovative project development, with 60 students from MCA & CSE-DS actively participating.The event commenced with an inauguration session, where Dr. R. Saraswathi (HOD, MCA) and Mr. A. Srinivasan (HOD, CSE-DS), along with the Guest of Honour, Dr. S. Selvakani (Assistant Professor & HOD, Department of CS, Government Arts & Science College, Arakkonam, Tamil Nadu), formally inaugurated the workshop.

The workshop was conducted as a single session, beginning with an introductory talk by the speaker. During this session, students received guidance on innovative project development, gaining practical insights. The key topics covered included Introduction to Innovation, Project Planning and Management, Prototyping and Testing, Execution & Agile Methodologies, Case Studies, Hands-on Training, and Future Trends.

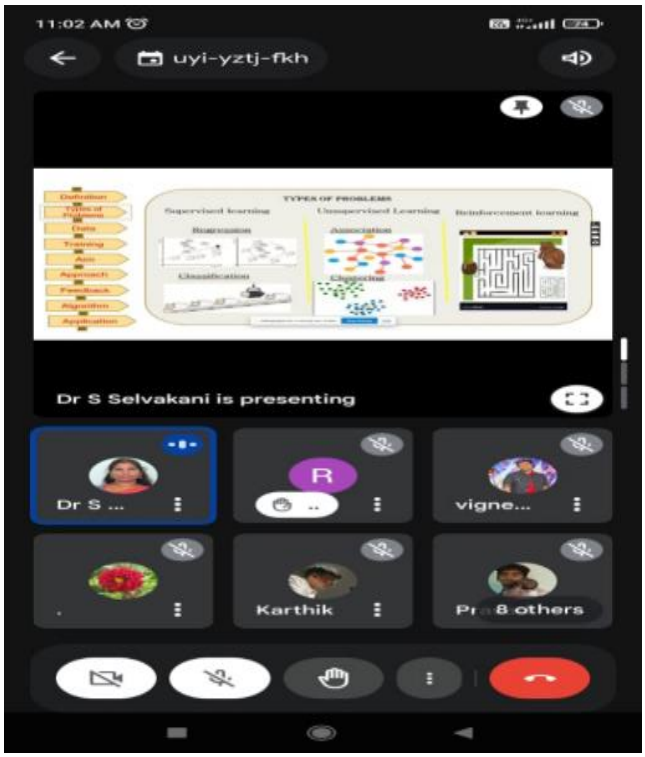
Speaker Details : Dr. S. Selvakani (Assistant Professor & HOD, Department of CS, Government Arts & Science College, Arakkonam, Tamil Nadu),

Co-ordinator : Mr. A. Srinivasan Associate professor &HOD, CSE-DS

Date :08-02-2025

Target Audience : III CSE-Data Science Students

Organized By : CSE-Data Science



Department

Sreenivasa Institute of Technology and Management Studies
(Autonomous)-Chittoor - 517127
Department of Computer Science and Engineering
(Data Science)
WEB DEVELOPMENT
INDUSTRIAL TRAINING WITH PLACEMENT PRACTICE

Date: 06-03-2025

Introduction: An **industrial visit** is an educational tour where students visit industries to gain firsthand exposure to real-world working environments, manufacturing processes, and corporate operations. It helps bridge the gap between theoretical knowledge and practical applications by allowing students to observe industry practices, interact with professionals, and understand modern technologies. The **use of an industrial visit** includes enhancing technical knowledge, improving understanding of industry trends, developing professional networking opportunities, and preparing students for future careers by giving them insights into workplace culture and expectations.

The students visited **CodeBind Technologies** in Chennai, where they were given an insightful overview of the company, its operations, and the latest tools and technologies in use. They learned about project management methodologies, the company's workflow, and best practices for executing tasks efficiently. The session also explained how the company handles challenges., implements problem-solving strategies, and ensures smooth project execution. This visit provided valuable industry exposure, bridging the gap between academic learning and real-world applications. After the industrial visit, The students **relaxed by** exploring local attractions., Including the beach and a temple, making the experience both educational and enjoyable.

Speaker Details **:** S Rajkumar, Head, HR dept, Code Bind Technologies

Co-ordinator **:** Mr . G Yuvaraju , Assistant professor

Date **:** 06-02-2025

Target Audience **:** III CSE-Data Science Students

Organized By **:** CSE-Data Science Department

GPS Map Camera
Chennai,Tamil Nadu,India
Mangesh Street, T Nagar, Chennai, Tamil Nadu
600017, India
Lat 13.039785, Long 80.231228
03/06/2025 11:37 AM GMT+05:30
Note : Captured by GPS Map Camera

GPS Map Camera
Chennai,Tamil Nadu,India
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600017, India
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03/06/2025 11:31 AM GMT+05:30
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GPS Map Camera
Chennai,Tamil Nadu,India
Mangesh Street, T Nagar, Chennai, Tamil Nadu
600017, India
Lat 13.039658, Long 80.231364
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Note : Captured by GPS Map Camera