Department of Computer Science & IIC

The Department of Computer Science & IIC of Sri Padmavathi Women's Degree & PG College, TTD(A), Tirupati conducted a workshop on Data Science On 24-09-2024. The event aimed to provide participants with an understanding of data science concepts, tools, and applications. The workshop aimed at enhancing data science skills of the students.

Objectives

The primary objectives of the workshop were to:

1. Introduce the fundamental concepts of data science.
2. Provide hands-on experience with data analysis tools and techniques.
3. Discuss real-world applications of data science across various industries.

Workshop Agenda

The workshop comprised several sessions, including lectures, hands-on activities, and group discussions. The agenda was as follows:

1. Introduction to Data Science

   ➢ Overview of data science and its significance.
   ➢ Key concepts: big data, machine learning, and data visualization.

2. Data Collection and Pre-processing

   ➢ Methods for gathering data from various sources.
   ➢ Techniques for cleaning and preparing data for analysis.

3. Machine Learning Fundamentals

   ➢ Introduction to supervised and unsupervised learning.
   ➢ Case studies demonstrating machine learning applications.

4. Hands-on Project

   ➢ Participants worked in groups on a mini-project to analyze a dataset.
   ➢ Presentation of findings and insights.

5. Q&A Session

   ➢ Open floor for questions.
   ➢ Opportunities for participants to connect and share experiences.

Feedback and Outcomes

Participants provided positive feedback, highlighting the following aspects:

- Content Relevance:The material was seen as highly relevant to current industry needs.

- Hands-on Experience: The practical sessions were particularly appreciated, allowing participants to apply concepts in real-time.

Conclusion

The Data Science Workshop was a resounding success, effectively achieving its goals of educating and engaging students in the dynamic field of data science. The seamless integration of theoretical knowledge with hands-on practical application created a vibrant and immersive learning environment. Students left equipped not only with foundational concepts but also with actionable skills they could apply immediately.

Looking ahead, future workshops could build on this strong foundation by incorporating participant feedback to further refine and enhance both the content and structure. This could include expanding into advanced topics, allowing for deeper exploration, and providing more time for collaborative projects. By continually adapting to the needs and interests of participants, we can ensure that upcoming workshops remain relevant and impactful, further enriching the data science community.

T. Narayanamma

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Principal (FAC)
Sri Padmavathi Women's Degree & P.G.
College, TTD, TIRUPATI.