05 Days Workshop on AI Powered Analytics Unlocking Insights with PowerBI Report

Format: 9014/0

Organized by   **: Department of Artificial Intelligence and Data Science**

Venue   **: SH-004 & SH-006**

Date   **: 08-09-2025 TO 12-09-2025**

Event Co-Ordinators **: Mr.M.Rama Krishna**

Report
Event Overview: The Department of Artificial Intelligence and Data Science organized a 5-day workshop on Power BI from 08th to 12th September 2025 for 3rd-year students.   The workshop introduced students to Business Intelligence (BI) concepts, Data Analytics (DA), and Power BI tools, focusing on data visualization, dashboards, DAX, Power Query, and AI-enabled features. Each day combined conceptual learning with hands-on training, enabling students to work with real-time datasets such as airline, food ordering, and e-commerce sales.   By the end of the workshop, participants were able to: Design interactive dashboards.   Apply data transformation and modeling.   Use DAX expressions for calculations.   Implement real-time reporting and AI integration in Power BI.   The sessions were highly interactive, and students provided positive feedback, highlighting that the workshop improved their technical knowledge, practical exposure, and industry readiness in the field of Business Intelligence and Data Science.   **Objective:**   The primary objective of this 5-day workshop was to provide students with hands-on exposure to Business Intelligence (BI), Data Analytics (DA), and Power BI. The workshop emphasized both conceptual understanding and practical implementation, enabling students to build interactive dashboards, perform data analysis using DAX, and create real-time reports integrated with AI features.   **Event Activities:**   **Day 01**   Introduction and Visualization Basics   Introduction to Business Intelligence (BI), Data Analytics (DA), and Power BI Desktop.   Overview of Power BI Accounts, BI Service, and System Architecture.   Introduction to visualization tools and coding practices.

Hands-on training on charts: line chart, scatter chart, pie chart, and bar chart.

Day 02

Data Visualization Techniques

Introduction to advanced Power BI features.

Designing data visualizations using various chart types: Column, Stacked Column, Pie, Donut, Funnel, Ribbon, Animated, and Flow charts.

Hands-on training with datasets and coding practices to build effective dashboards.

Day 03

Tables, Filters, and Reports

Implementation of Table and Matrix visualization.

Practical sessions on applying filters (include, exclude, custom filters).

Creating new columns using examples and Power BI tools.

Real-time project on airline dataset: Data refresh, loading new datasets, and building reports.

Day 04

Dashboards and AI Integration

Developing interactive dashboards using airline datasets.

Generating reports manually and integrating AI-based insights.

Discussion on the importance of BI and various career roles in BI.

Implementation of real-time project reports with advanced visualization techniques.

Day 05

Advanced Analytics and Capstone Project

Data Modeling and Data Analysis Expressions (DAX).

Using Power Query and Query Editor for data transformation.

Conducting quizzes to assess learning outcomes.

Creating dashboards on multiple airline datasets, establishing relationships between tables, and performing exploratory data analysis (EDA).

AI-enabled features: Analyze tool and Q&A integration.

Real-time implementation on Food Ordering Dataset and E-commerce Sales Dataset.

Capstone Project: Development of a comprehensive real-time Power BI dashboard.

Out Come of Workshop

Students gained practical expertise in data visualization, modeling, and analysis.

Exposure to real-time datasets enhanced problem-solving and analytical skills.

Participants successfully created interactive dashboards and implemented AI-integrated solutions.
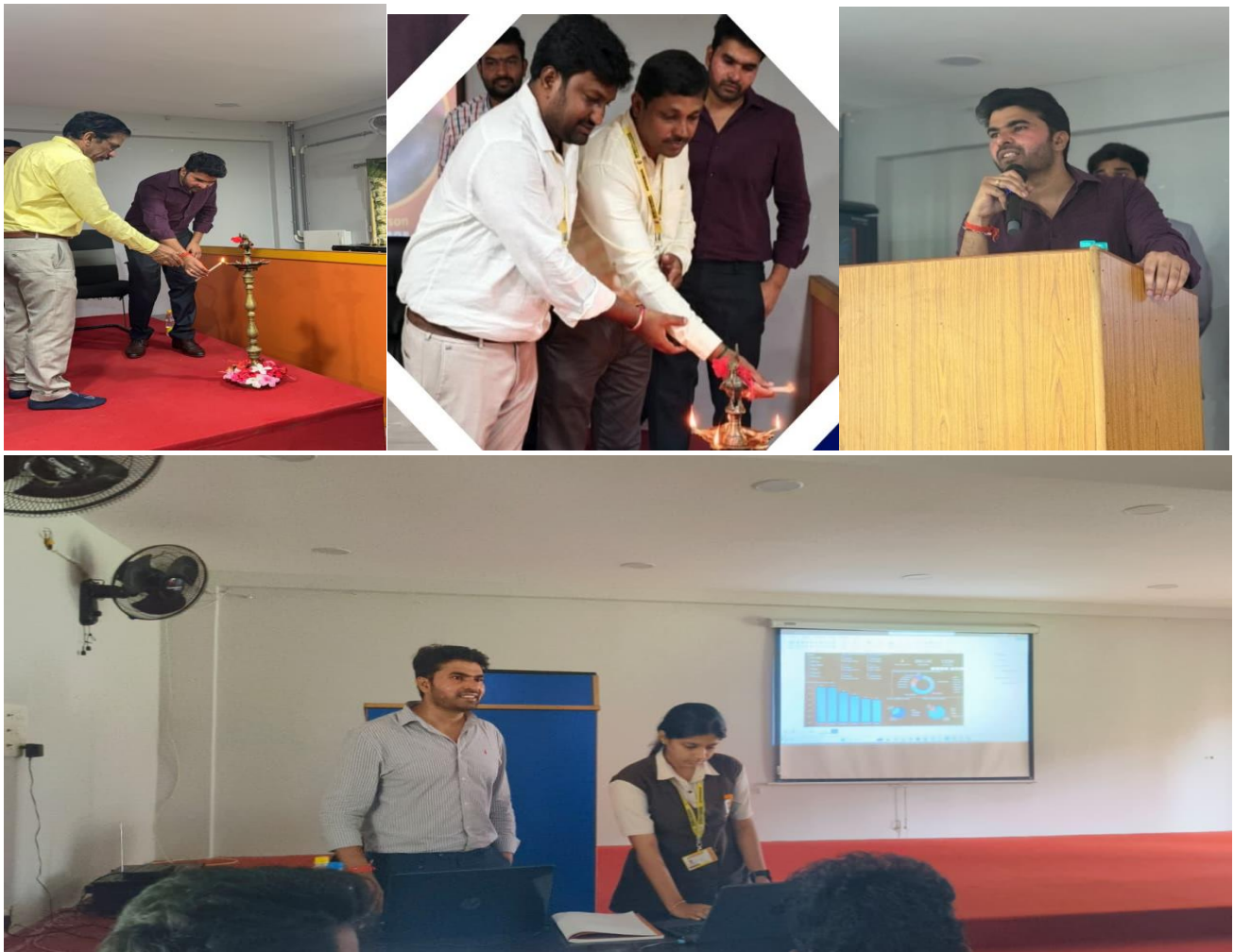
The workshop provided a strong foundation in Business Intelligence tools, preparing students for industry-ready analytics roles.

Feed Back:

Students provided highly positive feedback, appreciating the balance of theory and hands-on training, the relevance of real-time projects, and the exposure to industry-level BI practices.

Conclusion:

The 5-day Power BI Workshop successfully equipped the students of AI & DS Department with practical skills in Business Intelligence and Data Analytics. The workshop bridged the gap between academic learning and industry requirements, ensuring that students are better prepared for future careers in Data Analytics, Business Intelligence, and AI-driven insights.

Photos:

Event Coordinator	**HoD**	**Dean-Academics**	**Principal**