OBJECTIVE

This workshop aims to provide students, researchers, and professionals with a foundational and practical understanding of Data Engineering and Machine Learning(D-ML2025) using Databricks Free Edition

HIGHLIGHTS

- Hands-on sessions with real datasets
- Expert talks from academia & industry
- Projects & coding exercises
- Certification for participants

TARGET AUDIENCE

- UG/PG Students
- Research Scholars
- Faculty Members
- Industry Professionals
- Anyone interested in AI & ML

PREREQUISITE

- Basic knowledge in Python and SQL
- Sign up for Databricks Free Edition
- https://www.databricks.com/learn/free-edition
- Laptop with Internet Access

Focus Areas:

- Introduction to Data Engineering
- Storage formats
- Access options
- Introduction to Delta Lake
- DevOps Lifecycle

- Introduction to Machine Learning
- Types of machine learning problems
- MLOps Lifecycle

- Classification Problem
  - Spam or Not Spam
- Problem Discussion
- Approach
- Model Build and Verification

- Regression Problem
  - Student Final Grade Prediction
- Problem Discussion
- Approach
- Model Build and Verification

Patron

Rev. Fr. Dr. M. Swaminathan

Secretary, St. Joseph's College of Arts & Science
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In the Presence of

Dr. M. Arumai Selvam, Principal
Dr. J. Jon Arockiaraj, Senior Vice-Principal
Rev. Fr. Dr. S. Xavier, Controller of Examinations
Rev. Fr. Dr. A. Alex, Dean of Studies
Rev. Fr. Dr. S. Charles Edison, Director, Sports & Media
Dr. I. Savarimuthu, Vice-Principal (Shift-I)
Dr. R. Vidya, Vice-Principal (Shift-II)
Dr. P. James Mary, Vice-Principal (Shift-II)

Resource Person

Mr. Vimal Thomas Joseph

Specialist Solution Architect at Databricks,
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Convenor

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