Diploma in
BIG DATA ANALYTICS

Bringing Data to Life, Learn, Apply, & Excel!

Introduction

This intensive Four-Month Diploma blends big data, machine learning, and emerging technologies like cloud and IoT to drive business impact. Gain hands-on skills through expert-led sessions, real-world case studies, and practical tools to enhance decision-making and lead data-driven growth in your organization.

Key Benefits

- Equip students for large and complex data analysis using tools like Hadoop, Spark, and NoSQL.
- Teach data modeling, statistical analysis, and machine learning for insights.
- Train in data visualization techniques using charts, graphs, and maps.
- Instill best practices in data governance, security, privacy, and quality control.
- Practical experience via hands-on projects and industry-based case studies.
- Prepare students for careers in big data analytics, data science, business intelligence, and data engineering.

Program Details

Starting Date: August 2025

Weekend Program

Rs. 230,000/- (+5% SST)

4-Months Diploma

Saturday: 5:00 PM - 9:00 PM
Sunday: 9:30 AM - 2:30 PM

Course Topics

Python Foundations for Big Data Analytics

- Python setup and Jupyter Notebook
- Python's history and basics
- Numerical data analysis and arrays
- Simplified numerical concepts for ML

Big Data Wrangling

- Evolution of Big Data Analytics
- EDA and data preparation
- MetaData in D

Big Data Management with NoSQL

- NoSQL databases and data silos
- MongoDB, Redis, Cassandra, Neo4J
- NoSQL case studies in industries

Machine Learning for Big Data

- Understand the fundamentals of machine learning and its role in the analytics lifecycle
- Explore supervised, unsupervised, and reinforcement learning techniques
- Apply ML algorithms in both small-scale and big data environments

Infrastructure for Real-Time Big Data Analytics

- Technologies for real-time analytics
- Lambda, Kappa, Spark, Storm, Kafka
- Real-time analytics use cases and value
- Developing in-house infrastructure

Trainer Profile(s)

Sohail Imran
Experience: 18 Years

For more than 18 years, Mr. Sohail Imran is conducting training and workshops for databases (SQL and NoSQL), Big Data Infrastructure, and Machine Learning for different institutes, universities, and the corporate sector. More than 8 years of professional experience in Big Data Analytics, Data Science, Data Mining, Data Warehousing, and DBMS (SQL and NoSQL). Providing consultancy in designing and developing Big Data Analytics platforms using Java, RapideMiner, Radoop, Python, Hadoop, Hive, Spark, Kafka, Spark Streaming, Storm, etc.

Dr. Muhammad Affan Alim
Experience: 16 Years

Dr. Muhammad Affan Alim has 16 years of teaching, research, and development experience in Machine Learning, Deep Learning, Data Science, pattern classification, computer vision, Optimization of models, and statistical & mathematical analysis. He also has several years of professional experience in software development in Pakistan and the United Kingdom (UK). He has developed several industry-based projects.

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