

AI- Powered Analytics Training

Course Duration: 08 Hours

Course Code: AI-ANL-101

1. Course Overview

AI-Powered Analytics Training is designed to help professionals leverage Artificial Intelligence and data analytics to extract actionable insights from data. This course covers machine learning basics, data visualization, predictive analytics, and AI tools used in real-world business scenarios. Participants will gain hands-on experience with tools and techniques to make data-driven decisions and automate analytics processes.

2. What You'll Learn

- Fundamentals of AI and Data Analytics
- Data preprocessing and cleaning techniques
- Introduction to Machine Learning algorithms
- Predictive and prescriptive analytics
- Data visualization using modern tools
- Working with Python for analytics
- AI-powered business intelligence tools
- Real-world case studies and projects

3. Target Audience

- Data Analysts and Business Analysts
- Digital Marketing Professionals
- IT Professionals and Developers
- Managers and Decision Makers

- Fresh Graduates interested in AI & Analytics
- Anyone looking to build a career in data-driven technologies

4. Pre-Requisites

- Basic understanding of computers
- Knowledge of Excel or any data handling tool (preferred)
- Basic programming knowledge (Python is a plus, not mandatory)
- Analytical thinking and problem-solving skills

5. Course Content

Module 1: Introduction to AI & Analytics

- What is AI in Analytics
- Types of Analytics (Descriptive, Predictive, Prescriptive)

Module 2: Data Collection & Preparation

- Data sources and formats
- Data cleaning and transformation

Module 3: Python for Data Analytics

- Introduction to Python
- Libraries: NumPy, Pandas, Matplotlib

Module 4: Machine Learning Basics

- Supervised vs Unsupervised Learning
- Regression and Classification

Module 5: Data Visualization

- Dashboard creation
- Tools like Power BI / Tableau

Module 6: AI in Business Analytics

- Automation using AI
- Real-world use cases

Module 7: Capstone Project

- End-to-end AI analytics project
- Business problem solving

