# Data Science for Beginners

## Course Syllabus

# Course Description:

An introductory course to Data Science. Learn the fundamentals of data analysis, machine learning, and statistical n

Course Details:

Duration: 4 hours

Category: Data Science

#### Course Objectives:

- 1. Understand data science fundamentals
- 2. Learn data analysis and visualization
- 3. Master basic statistical concepts
- 4. Implement machine learning algorithms
- 5. Work with real-world datasets

#### Course Outline:

Module 1: Introduction to Data Science

- What is Data Science?
- Data Science workflow
- Tools and technologies

#### Module 2: Data Analysis

- Data cleaning and preprocessing
- Exploratory data analysis
- Data visualization

### Module 3: Machine Learning Basics

- Supervised learning
- Unsupervised learning
- Model evaluation

## Prerequisites:

- Basic Python programming
- Basic mathematics and statistics
- Familiarity with data concepts

Assessment Methods: