



Data Science with **MACHINE LEARNING & ARTIFICIAL INTELLIGENCE**

DURATION:
240Hrs/6 Months

P-DSPM (Professional Course in Data Science with Machine Learning & Artificial Intelligence)

OBJECTIVE:

The Data Science with Python and Machine Learning course is designed to provide a condensed overview of Python programming for data analysis and key machine learning concepts. Through hands-on projects, ethical considerations, and communication training, participants will develop robust data handling, visualization, and statistical machine learning capabilities. This comprehensive approach will enable students to effectively apply data science techniques in real-world scenarios.

- ▶ FUNDAMENTALS DATA SCIENCE
- ▶ INTRODUCTION TO STATISTICS
- ▶ ADVANCED EXCEL
- ▶ PYTHON FOR DATA SCIENCE
- ▶ MACHINE LEARNING
- ▶ ARTIFICIAL INTELLIGENCE
- ▶ TABLEAU
- ▶ SQL

LEARNING OUTCOMES:

- ▶ Develop proficiency in collecting, cleaning, and preprocessing data, including handling missing values and outliers.
- ▶ Become skilled in Python, utilizing libraries like NumPy and Pandas for data manipulation.
- ▶ Gain an in-depth understanding of various Machine Learning (ML) algorithms, including regression, classification, clustering, and dimensionality reduction.
- ▶ Enhance proficiency in improving model accuracy and understanding the impact of features on model performance.
- ▶ Master creating informative visualizations using tools like Matplotlib and Seaborn, and effectively communicate insights through charts and graphs.
- ▶ Cultivate the ability to independently and collaboratively solve complex data problems.

CAREER OPTIONS:



MACHINE LEARNING ENGINEER



DATA SCIENTIST



DATA SCIENCE CONSULTANT