

INTRODUCTION TO DATA SCIENCE

UNLOCK THE WEALTH OF FORTUNE WITH DATA SCIENCE

**HOLD THE KEY
TO MILLION
DOLLAR BUSINESS
INSIGHTS**

JOIN NOW!

EDP  **Introduction to Data Science**
Instructor-Led Training
Live Workshop

Introduction to Data Science is one of the modules under our Enterprise Data Practitioner (EDP) programme. EDP is an eight-day training program that super-charges Business Intelligence analysts with new skills to analyse and communicate insights effectively.

**informatics PEP**
PROFESSIONAL EDUCATION PARTNER


**HRDF
CLAIMABLE**

Your first step to the “Most Sexy” Job in the World

Being a data scientist requires an integrated skill set spanning mathematics, statistics, machine learning, databases, and other branches of computer science, along with a good understanding of the craft of problem formulation to engineer effective solutions.

Science to Gain Insights

This course will introduce students to a rapidly growing field and equip them with some of its basic principles and tools, as well as its general mindset. Students will learn the concepts, techniques, and tools needed to deal with various facets of data science practice, including data collection and integration, exploratory data analysis, evaluation of data insights, and effective communication of data insights.

Learning Outcome

- Understand what Data Science is, and the skill sets needed to be a data analytics professional
- Understand the importance of effective communication for a data practitioner
- Understand the fundamentals and capabilities of Big Data
- Learn the data science process: acquire, wrangle, analyze, model, visualize, share

Who Should Attend

- Beginners who would like to learn the necessary skills to start a data analytics project
- Junior executives who are just getting started in a data-driven organization
- Operational staffs who will be taking care of data collection and initial stage of data organization
- Finance, accounting, investment, and insurance professionals who want to build foundation in data science and analytics

Course Outline

	Module Description	Learning Breakdown
Overview	Explore the basics of Data Science	<ul style="list-style-type: none"> • Overview of Data Science • The Needs for Data Science • Responsibilities of data scientists • Data Science Process
Dealing with Data	Explore the data with data mining techniques	<ul style="list-style-type: none"> • Acquiring data • Wrangling data • Overview of Data Model • Data Characterization • Data Cleaning (The Need for Data Cleaning, Data Quality) • Data Integration (Problems and Solutions) • Data Storage (Models, Scalability Basics and Challenges)
Data Analysis	Explore methods for data analysis	<ul style="list-style-type: none"> • Categories of Data Analysis • Data Analysis Process • Learn the methods of data analysis such as Statistics and Machine Learning
Data Visualization and Storytelling	Learn to make the data understandable to all	<ul style="list-style-type: none"> • Visualizing data into knowledge • Adding wisdom with storytelling • The Need to Visualize Data • Design Considerations • Usage of Graphs and Charts
The Data Science Industry	Learn to utilize the skills, tools, and talent to build a Data Science team	
Applications of Big Data in Business	Learn the capabilities of Big Data and managing expectations on what Big Data can deliver to help your bottom line.	

Reading Materials

Core Readings

1. EMC Education Services (Editor). (2015).

Data Science and Big Data Analytics: Discovering, Analyzing, Visualizing, and Presenting Data