

Introduction to Data Science

Data science is a fascinating field with a high demand for skilled professionals. In this "Introduction to Data Science ", the following topics are covered : -

- What is Data Science?
- Who is a Data Scientist?
- Roadmap to Becoming a Data Scientist
- Data Science Core Concepts (Total Life Cycle, Statistics and Probability, Machine Learning, Core Algorithms, Deep Learning)
- Data Science for Non-Programmers
- Bonus Sections (Creating a Data Scientist Resume, Data Science Interview Questions and Answers)

Now, let's dive into what data science is all about.

What is Data Science?

With the development of new technologies, there has been a rapid increase in the amount of data. This has created an opportunity to analyse and derive meaningful information from all this data. Technically, data science is defined as the process of extracting knowledge and insights from complex and large sets of data by using processes like data cleaning and data visualization.

For example, Google Maps collects data every day from a multitude of reliable sources, primarily smartphones. It continuously combines the data from drivers, passengers, and pedestrians and then uses machine learning algorithms to send real traffic updates by way of coloured lines on the graphic layers. This helps you find your optimal route and even determine which areas should be avoided due to road work or accidents.

As data science continues to evolve, the demand for skilled professionals in this domain is also increasing drastically. In order to uncover useful intelligence for their organizations, data scientists must master all the aspects of data science.