



# DATA SCIENCE

Learn From Industrial Expert

Course Duration :- 12 MONTHS



### What Is Data Science?

Data Science Is A Multidisciplinary Field Of Study That Applies Techniques And Tools To Draw Meaningful Information And Actionable Insights Out Of Noisy Data. Involving Subjects Like Mathematics, Statistics, Computer Science And Artificial Intelligence, Data Science Is Used Across A Variety Of Industries For Smarter Planning And Decision Making.

### Data Science Careers

Data science jobs can come in many different forms. During the beginning of a career in data science, a person may hold the title of data analyst and progress to scientist, engineer, architect and so on. Each role within data science uses both technical and soft skills that will need to be developed throughout a person's career. **Avg Annual Income(Entry Level) 13.00 Lakhs to 19.00 Lakhs**

## Popular Data Science Tools

- Apache Spark (data analytics tool)
- Apache Hadoop (big data tool)
- KNIME (data analytics tool)
- Microsoft Excel (data analytics tool)
- Microsoft Power BI (business intelligence data analytics and data visualization tool)
- MongoDB (database tool)
- Qlik (data analytics and data integration tool)
- QlikView (data visualization tool)
- SAS (data analytics tool)
- Scikit Learn (machine learning tool)
- Tableau (data visualization tool)
- TensorFlow (machine learning tool)

## Data Science Tools

Data Science Requires You To Learn Many Tools, Each Tool Serving It's Purpose. We Have Mentioned Some Of The Most Popular Tools And Their Field Of Use Below

- Programming Languages – Python, R
- Data Visualization Tools – Tableau, Power BI, Cognos, Raw
- Machine Learning Libraries – Scikit-learn, Tensor flow
- Big Data Frameworks – Apache Hadoop, Apache Spark
- Data Modelling – H2O.ai, Azure ML Studio, Mahout

## The Data Science Program Topics

- Introduction to Data Science
- Mathematical and Statistical Skills
- Machine Learning
- Artificial Intelligence
- Coding
- Applied Mathematics and Informatics
- Machine Learning Algorithms
- Data Warehousing
- Data Mining
- Data Visualization
- Cloud Computing
- Data Structures
- Scientific Computing
- Scholastic Models
- Project Deployment Tools
- Predictive Analytics and Segmentation
- Exploratory Data Analysis



## Benefits of Data Science

Businesses use data science, here are some common benefits of data science in business, and the skills that will be needed to become a data scientist:

- Making better business decisions
- Measuring performance
- Providing information to internal finances
- Developing better products
- Increasing efficiency
- Mitigating risk and fraud
- Predicting outcomes and trends
- Improving customer experiences

