



# Professional Certificate Program in Data Science Using Machine Learning & AI



Online interactive course

Duration - 6 Months

# Data Analyst Profile



## DATA SCIENCE

THEY FIGURE OUT WHAT THE DATA MEANS

### Technical Skills?

Data Analysts typically use computer system and complex calculations applications to get their numbers nailed down, but there is still a lot of intellectual know-how that goes into making these systems work.

### Applications

How do Data Analysts use this Data

- 13% Extrapolation and Interpretation
- 44% Projections and Advisory Responsibilities
- 32% Research and Writing Tasks
- 19% System Expertise and Troubleshooting
- 07% Training



### Purpose

There job is to assign numerical values to different business functions, and are responsible for identifying efficiencies, problem areas, and possible improvements.

### Data

What do they do with all that statistical Data?



### Why?

This is a process of inspecting, cleaning, transforming, and modelling data with the goal of discovering useful information.

## Data Science

**97<sup>mn</sup>**

New jobs will be created world wide for skills related to data analytics by 2025

**60%**

Companies believe automation and or digitization is a top priority

**50%**

Companies have started using AI and machine learning for at least one function

**5%**

Organizational EBIT is attributable to AI say 22% of survey respondents

### Source

1. World Economic Forum | The Future of Jobs Report 2020
2. McKinsey | Retraining and reskilling workers in the age of automation
3. McKinsey | The state of AI in 2020



Our institute offers a comprehensive 6-month online program in data science, designed to equip students with the skills and knowledge necessary to excel in this rapidly growing field.

The program covers a wide range of topics, from data analysis and visualization to machine learning and predictive modeling. Students will gain hands-on experience working with real-world data sets and learn to use popular programming languages such as Python and R.

Throughout the program, students will have access to experienced instructors who will provide personalized guidance and support. In addition, our online learning platform offers interactive lessons, quizzes, and assignments that allow students to track their progress and gain valuable feedback.

## Perks



Online classroom sessions



6 Months Duration



Real-time Industry Projects



250+ Hours of learning



Live QnA sessions



Career Guidance



# Data Science Career

Data science is an exciting and rapidly growing field that offers a wealth of career opportunities. In today's digital age, organizations of all kinds are generating and collecting vast amounts of data, and they need skilled professionals who can make sense of this data and use it to drive better decisions.

The demand for data scientists is growing rapidly, and salaries in the field are often quite competitive. According to Glassdoor, the average salary for a data scientist in the United States is over \$110,000 per year.

As a data scientist, you will use your knowledge of statistics, programming, and machine learning to analyze data and uncover insights that can help businesses and organizations improve their operations, products, and services.



# Who should sign up for our certification course?

✔ Want's to be an expert in Data Analyzing?

✔ Want's to learn Industry-Oriented Knowledge?

✔ Want's to work in big corporate or MNC's?

✔ Want's to learn Industry-Oriented Knowledge?

## Tools





# Data Science

LinkedIn's emerging jobs report claims that data science has emerged as the fastest-growing job requirement globally, striking more than 650% growth since 2012. From USD 37.9 billion in 2019, the market will show an upward arc to reach USD 230.80 billion by 2026.

Likewise, according to Analytics Insights, India will capture 32% of the big data market worldwide and generate USD 20 billion by 2026. The Indian analytics industry is predicted to escalate to USD 98 billion in 2025 and nearly USD 119 billion in 2026. Currently, the demand for data scientists is at an all-time high in India. Analysts have predicted around 11 million job openings in data science by 2026 in India alone.

The job opportunities after our Certificate Degrees in Data Science are endless, including



- Data Analyst
- Business Analyst
- Data Engineer
- Data Scientist
- Machine Learning Engineer
- Product Analyst
- Business Intelligence

# Why you should become Data Scientist ?

Becoming a data analyst can be a great career choice for those with an interest in working with data and making informed decisions based on analysis. Here are some reasons why you should consider becoming a data analyst:



## Mastering data analytics

To save your big time, you will be mastering analyzing your data and converting your boring data/ reports to interesting and attractive live Dashboards, so that you can be assets to your company



## Significant part of an organisation

A company cannot function with raw data if there are no analysts to sift through it and analyze the data. Data analysts have a massive impact on the business of a company and thus are an invaluable part of it.



## Jobs on the rise

The demand for data analysts in any company is going through the roof while the supply remains low. Thus becoming a data analyst will be rewarding.



## High salaries

Since the demand for data science is way more than the supply, salaries are quite high in the field. After a few years of experience, a data analyst can earn up to almost Rs. 1 Lakh to 25 Lakh a month.



## Ample of opportunities

Data Science are not bound by a specific genre because data is an essential part of any industry. So a data analyst has the option to choose from any number of industries

# Faculty and Industry Experts



## Raj Singh

- 15+ years experience
- Trained more than 5Lakhs+ students
- Given training in companies like SBI, Central bank of India, Indian railways, Infosys, IBM



## Amit Goyal

- 11+ years of experience
- Microsoft Certified Trainer and Power BI expert
- Trained in Top Corporate companies in India



## Jaywant Thorat

- 18 years of total experience with expertise in Training
- MCT & Data Analytics expert
- Trained in Top corporate companies like TATA Power, Wipro, Cipla, HDFC, Indian Army, Reliance, Uniliver, ICICI, and 50+ Corporates



## Meena Jain

- 15+ years experience
- Data analyst expert
- Trained at HP, HCL, L&T, SIEMENS, TATA POWER, TATA SKY, HERO MOTORS, MARUTI SUZUKI, JLL, PWC



## Deepak Juju

- 20+ years of experience
- Trained more than 700+ companies
- Microsoft Certified Data Analytics
- HERO MOTORS, MARUTI SUZUKI, JLL, PWC





# Program Structure



## Mastering data analytics

Get world-class live coaching with one of the best mentors in India



## Live QnA Classes

Live doubt solving by Subject Matter Expert



## TA sessions

Timely doubt resolution and hands-on guidance for projects and tools



## Surprise Guest sessions

You will be getting a chance to interact and learn with surprise industry experts in the data analytics field



## Premium Content Support

After the course you get an access of 6 month of premium content directly made by trainers

# Program Curriculum

## Mathematics Foundations

1. Number Systems
2. Percentage, Ratio & Proportion
3. Profit & Loss
4. Simple and Compound Interest
5. Linear Equations
6. Quadratic Equations
7. Set, Relations & Functions

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## Excel

1. Introduction to Excel
  2. Merging and Looking up Data
  3. Decision Making with IF
  4. Preparing Data for Analysis
  5. Pivot Tables
  6. Visualising Data with Charts
  7. Forecasting
  8. WhatIf Analysis
  9. Advanced Functions
  10. Dashboards
-

# Program Curriculum

## Probability & Statistics

1. Basic Counting Principles
  2. Basic Probability Theory
  3. Conditional Probability & Bayes Theorem
  4. Basic Statistics
  5. Data Interpretation
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## SQL Foundations

1. Introduction to Data & Databases
  2. Entities & Relations
  3. Introduction to Tables
  4. SQL General Query Commands
  5. Joins
  6. Subqueries
-

# Program Curriculum

## Intro to Programming in Python

1. Intro to Py
  2. Control Statements
  3. Data Types
  4. Functions
  5. Input & Output
- 

## Tableau

1. Introduction to Tableau
  2. Groups and Sets
  3. Table Calculations
  4. Data Preparation
  5. Data Analysis
  6. Animations
  7. Advanced Mapping Techniques
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# Program Curriculum

## Advanced Probability & Statistics

1. Random Variables
  2. Distribution Functions
  3. Correlation, Covariance & Independence
  4. Population & Sampling
  5. Confidence Interval
  6. Hypothesis Testing
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## Data Analysis using Python

1. Numpy
  2. Pandas
  3. Data Processing
  4. Plotting & Visualisation using Matplotlib & Seaborn
  5. Data Aggregation & Grouping
  6. Time Series Data
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# Program Curriculum

## Advanced Python

1. Modules
2. Classes & Objects
3. Exception Handling
4. File Handling
5. Packages
6. Inheritance
7. Decorators

## Advanced SQL

1. SQL Scripts
2. Views
3. Functions
4. Triggers
5. ORM using SQLAlchemy
6. Overview of other Databases

# Program Curriculum

## ML and DL

1. Introduction to ML
  2. Regression
  3. Classification
  4. Probability Estimation & Dimensionality Reduction
  5. Decision Trees & Ensemble Methods
  6. Intro to DL
  7. Intro to Perceptron & Neural Networks
  8. Gradient Descent Algorithms
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## Practical ML and DL

1. Intro to Sklearn & Tensorflow
  2. Regression using Sklearn & Tensorflow
  3. Classification using Sklearn & Tensorflow
  4. Decision Trees using Sklearn & Tensorflow
  5. Using NN with Tensorflow
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# Program Curriculum

## AI (Artificial Intelligence)

1. Machine Learning
2. Deep Learning
3. Reinforcement Learning
4. Robotics
5. Natural Language Processing
6. Computer Vision
7. Recommender Systems
8. Internet of Things



# Certificate

Bounce Rate  
7s  
57.1%



PAGE VIEWS VS ONLOAD      OPTIONS      SESSIONS      OPTIONS  
Page Load (LUX)      Page Views (LUX)      Bounce Rate (LUX)      Sessions (LUX)      Session Length (LUX)      PVs Per Session (LUX)

## Get official certification from Ira Edu-Tech and explore more career opportunities



**ADVANCE CERTIFICATION**  
IN DATA SCIENCE

This Certificate Is Proudly Presented To

**YOUR NAME**

We give this certificate from **Ira Edu-Tech** who has successfully completed  
**Certification in Data Science**

given on DATE

  
Deven Pandey  
CEO, Ira Edu-Tech



**SIGN**  
Head Trainer  
Certified Trainer





## About Us

Ira Edu-tech is an educational institution that aims to provide particular knowledge about top current trending topics. We offer workshops at a very affordable price, Our main goal as an educational institution is to provide better knowledge and proper skill sets to the students that will help them get a job and growth in your professional life

## Contact Us

For admissions contact

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