

About Intellipaat

Intellipaat is a fast-growing professional training provider that is offering training in over 150 most sought-after tools and technologies. We have a learner base of 600,000 in over 32 countries and growing. For job assistance and placement we have direct tie-ups with 80+ MNCs.

Key Features of Intellipaat Training:



Instructor Led Training

40 Hrs of highly interactive instructor led training



Self-Paced Training

28 Hrs of Self-Paced session with Lifetime access



Exercise and project work

56 Hrs of real-time projects after every module



Lifetime Access

Lifetime access and free upgrade to latest version



Support

Lifetime 24*7 technical support and query resolution



Get Certified

Get global industry recognized certifications



Job Assistance

Job assistance through 80+ corporate tie-ups



Flexi Scheduling

Attend multiple batches for lifetime & stay updated.

About the Course

This is a complete Data Science Bootcamp specialization training course from Intellipaat that provides you with detailed learning in data science, data analytics, project life cycle, data acquisition, analysis, statistical methods and machine learning. You will gain expertise to deploy Recommenders using R programming, data analysis, data transformation, experimentation, and evaluation.



Instructor Led
Duration – 40 Hrs
Weekend Batch –3 Hrs/Session



Self Paced
Duration – 28 Hrs



Why take this Course?

There is a serious shortage of Data Scientists and this is a major concern for Top MNCs around the world. All this means the major corporations are ready to pay top dollar salaries for professionals with the right Data Science skills. This Data Science Course equips with all the latest technologies in Big Data, analytics, and R programming. Thus you can easily take your career to the next level after completion of this Data Science Course.

- Data Scientist is the best job of the 21st century Harvard Business Review
- Global Big Data market to reach \$122B in revenue by 2025 Frost & Sullivan
- The US alone could face a shortage of 1.4 -1.9 million Big Data Analysts by 2018 Mckinsey

Course Content

Module /Topic

Introduction to Data Science and Statistical Analytics

- Introduction to Data Science
- Use cases
- The need for Business Analytics
- Data Science Life Cycle
- Different tools available for Data Science

Introduction to R

- Installing R and R-Studio
- R packages and R Operators
- if statements and loops (for, while, repeat, break, next), switch case

Data Exploration, Data Wrangling, and R Data Structure

- Importing and Exporting data from an external source
- Data exploratory analysis
- R Data Structure (Vector, Scalar, Matrices, Array, Data frame, List)
- Functions, Apply Functions

Data Visualization



- Bar Graph (Simple, Grouped, Stacked)
- Histogram
- Pie Chart, Line Chart, Box (Whisker) Plot, Scatter Plot
- Correlogram

Introduction to Statistics

- Terminologies of Statistics
- Measures of Centers, Measures of Spread
- Probability
- Normal Distribution
- Binary Distribution
- Hypothesis Testing
- Chi-Square Test
- ANOVA

Predictive Modeling – 1 (Linear Regression)

- Supervised Learning Linear Regression, Bivariate Regression, Multiple Regression Analysis, Correlation (Positive, negative and neutral)
- Industrial Case Study
- Machine Learning Use-Cases
- Machine Learning Process Flow
- Machine Learning Categories

Predictive Modeling – 2 (Logistic Regression)

Logistic Regression

Decision Trees

- What are Classification and its use cases?
- What is Decision Tree?
- Algorithm for Decision Tree Induction
- Creating a Perfect Decision Tree
- Confusion Matrix

Random Forest

- Random Forest
- What is Naive Bayes?

Unsupervised learning



- What is Clustering & its Use Cases?
- What is K-means Clustering?
- What is Canopy Clustering?
- What is Hierarchical Clustering?

Association Analysis and Recommendation engine

- Market Basket Analysis (MBA)
- Association Rules
- Apriori Algorithm for MBA
- Introduction of Recommendation Engine
- Types of Recommendation User-Based and Item-Based
- Recommendation Use-case

Sentiment Analysis

- Introduction to Text Mining
- Introduction to Sentiment
- Setting up API Bridge, between R and Twitter Account
- Extracting Tweet from Twitter Acc
- Scoring the tweet

Time Series

- What is Time Series data?
- Time Series variables
- Different components of Time Series data
- Visualize the data to identify Time Series Components
- Implement ARIMA model for forecasting
- Exponential smoothing models
- Identifying different time series scenario based on which different Exponential Smoothing model can be applied
- Implement respective ETS model for forecasting



Project Work

Project 1: Cold Start Problem in Data Science

Industry: E-commerce

Problem Statement: how to build a recommender system without the historical data available

Topics: This project involves an understanding of the cold start problem associated with the recommender systems. You will gain hands-on experience in information filtering, working on systems with zero historical data to refer to, as in the case of launching a new product. You will gain proficiency in working with personalized applications like movies, books, songs, news and such other recommendations. This project includes the various ways of working with algorithms and deploying other data science techniques.

Highlight:

- Algorithms for Recommender
- Ways of Recommendation
- Types of Recommendation -Collaborative Filtering Based Recommendation, Content-Based Recommendation
- Complete mastery in working with the Cold Start Problem.

Project 2: Recommendation for Movie, Summary

Topics: This is real world project that gives you hands-on experience in working with a movie recommender system. Depending on what movies are liked by a particular user, you will be in a position to provide data-driven recommendations. This project involves understanding recommender systems, information filtering, predicting 'rating', learning about user 'preference' and so on. You will exclusively work on data related to user details, movie details, and others. The main components of the project include the following:

- Recommendation for movie
- Two Types of Predictions Rating Prediction, Item Prediction
- Important Approaches: Memory-Based and Model-Based
- Knowing User Based Methods in K-Nearest Neighbor
- Understanding Item Based Method
- Matrix Factorization
- Decomposition of Singular Value
- Data Science Project discussion
- Collaboration Filtering
- Business Variables Overview



Project 3: Making sense of customer online buying pattern

Industry: e-commerce

Problem Statement: An e-commerce company wants to know how to deploy targeted selling to its customers

Description: This Data Science project involves learning from the customer buying habits and selling them the products that they need. As part of the project, you will aggregate, cleanse, transform and load the data of customer buying history. Then you will deploy statistical analysis, predictive modeling and create profiles of customers to implement targeted selling to them.

Highlights:

- Decision Tree for classification of customers
- R computing for statistical analysis
- Techniques for predictive modeling.

Project 4: Fraud Detection in Banking System

Industry: Banking and Finance

Problem Statement: A major bank wants to deploy data science to detect fraudulent activities and take remedial

actions before it is too late

Description: This data science project will help you understand how you can look for fraudulent activities in a banking ecosystem. You will work with banking transactional data, look for outliers in the data, classify this data based on various parameters, apply statistics and come up with inferences to look for rogue transactions and mitigate the risk before it is too late.

Highlights:

- Data aggregation and analysis
- K-Means Clustering using R program
- Visualizing the data for inferences

Case Study

The Market Basket Analysis (MBA) case study

This case study is associated with the modeling technique of Market Basket Analysis where you will learn about loading of data, various techniques for plotting the items and running the algorithms. It includes finding out what are the items that go hand in hand and hence can be clubbed together. This is used for various real-world scenarios like a supermarket shopping cart and so on.



Intellipaat Job Assistance Program

Intellipaat is offering comprehensive job assistance to all the learners who have successfully completed the training. A learner will be considered to have successfully completed the training if he/she finishes all the exercises, case studies, projects and gets a minimum of 60% marks in the Intellipaat qualifying exam.

Intellipaat has exclusive tie-ups with over 80 MNCs for placement. All the resumes of eligible candidates will be forwarded to the Intellipaat job assistance partners. Once there is a relevant opening in any of the companies, you will get a call directly for the job interview from that particular company.

Frequently Asked Questions:

Q 1. What is the criterion for availing the Intellipaat job assistance program?

Ans. All Intellipaat learners who have successfully completed the training post, April 2017 are directly eligible for the Intellipaat job assistance program.

Q 2. Which are the companies that I can get placed in?

Ans. We have exclusive tie-ups with MNCs like Ericsson, Cisco, Cognizant, Sony, Mu Sigma, Saint-Gobain, Standard Chartered, TCS, Genpact, Hexaware, and more. So you have the opportunity to get placed in these top global companies.

Q 3. Does Intellipaat help learners to crack the job interviews?

Ans. Intellipaat has an exclusive section which includes the top interview questions asked in top MNCs for most of the technologies and tools for which we provide training. Other than that our support and technical team can also help you in this regard.

Q 4. Do I need to have prior industry experience for getting an interview call?

Ans. There is no need to have any prior industry experience for getting an interview call. In fact, the successful completion of the Intellipaat certification training is equivalent to six months of industry experience. This is definitely an added advantage when you are attending an interview.



Q 5. What is the job location that I will get?

Ans. Intellipaat will try to get you a job in your same location provided such a vacancy exists in that location.

Q 6. Which is the domain that I will get placed in?

Ans. Depending on the Intellipaat certification training you have successfully completed, you will be placed in the same domain.

Q 7. Is there any fee for the Intellipaat placement assistance?

Ans. Intellipaat does not charge any fees as part of the placement assistance program.

Q 8. If I don't get a job in the first attempt, can I get another chance?

Ans. Definitely, yes. Your resume will be in our database and we will circulate it to our MNC partners until you get a job. So there is no upper limit to the number of job interviews you can attend.

Q 9. Does Intellipaat guarantee a job through its job assistance program?

Ans. Intellipaat does not guarantee any job through the job assistance program. However, we will definitely offer you full assistance by circulating your resume among our affiliate partners.

Q 10. What is the salary that I will be getting once I get the job?

Ans. Your salary will be directly commensurate with your abilities and the prevailing industry standards.

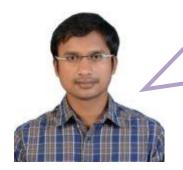


What makes us who we are?



"I want to talk about the rich LMS that Intellipaat data science training offered. The extensive set of PPTs, PDFs, and other related Data Science course material were of the highest quality and due to this my learning with Intellipaat was excellent and I could clear the Cloud era Data Scientist certification in the first attempt."

-Shrevash Limbhetwala



"I had taken the data science master program which is a combo of SAS, R and Apache Mahout. Since there are so many technologies involved in the Data Science course, getting your query resolved at the right time becomes the most important aspect. But with Intellipaat there was no such problem as all my queries were resolved in less than 24 hours."

- Giri Karnal



"The Intellipaat data science certification training videos really made me excited about studying data science. They were so elaborate and so professionally created that I could learn data science from the comfort of my home thanks to those learner-friendly videos. I am grateful to Intellipaat. "

- Nitesh Kumar

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