

DATA SCIENCE ARCHITECT MASTER PROGRAM

About IntelliPaat

IntelliPaat is a global online professional training provider. We are offering some of the most updated, industry-designed certification training programs in the domains of Big Data, Data Science & AI, Business Intelligence, Cloud, Blockchain, Database, Programming, Testing, SAP and 150 more technologies.

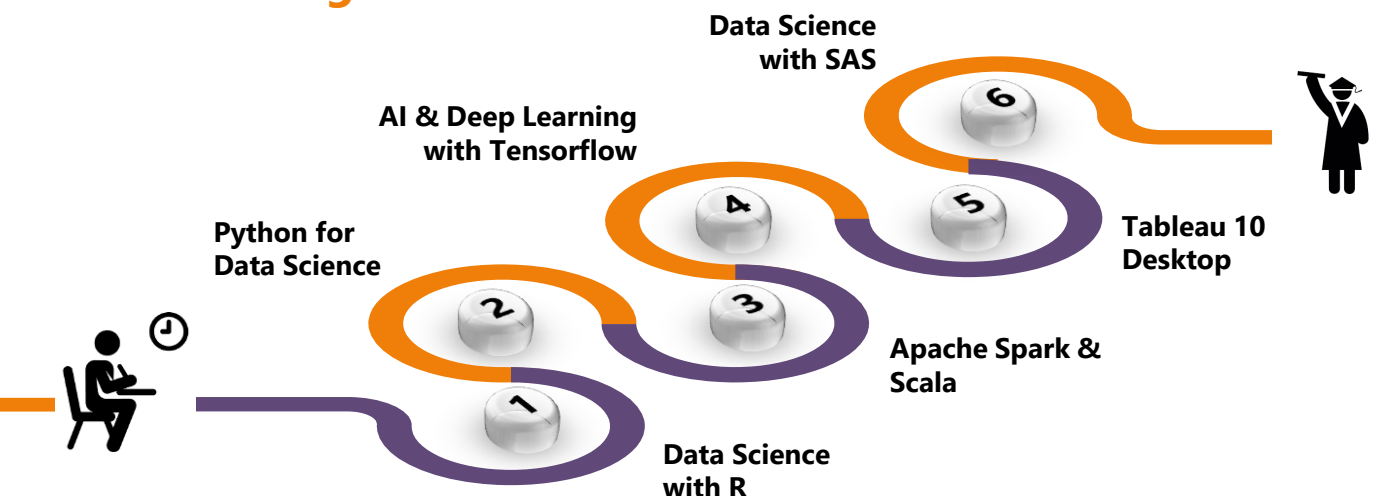
We help professionals make the right career decisions, choose the trainers with over a decade of industry experience, provide extensive hands-on projects, rigorously evaluate learner progress and offer industry-recognized certifications. We also assist corporate clients to upskill their workforce and keep them in sync with the changing technology and digital landscape.

About The Course

Our Data Science Architect masters course lets you gain proficiency in Data Science. You will work on real world projects in Data Science with R, Apache Spark, Scala, Deep learning, Tableau, Data Science with SAS, and more. In this program you will cover 12 courses and 48 industry-based projects with 1 Capstone Project.



Learning Path



Why take this Course?

This IntelliPaat training program has been created keeping in mind the needs of the industry when it comes to the domain of Data Science. Today's Data Scientists need to have a diverse set of skills which include working with huge volumes of data, parsing that data, converting it into a format that is easily understandable and using which business insights can be derived. This training program lets you play multiple roles in the Big Data and Data Science domains and get hired for top-notch salaries.

Index

Instructor Led

1. [Data Science with R](#)40 Hrs
2. [Python for Data Science](#) ...39 Hrs
3. [Apache Spark and Scala](#) ...24 Hrs
4. [AI and Deep Learning](#)32 Hrs
5. [Tableau Desktop 10](#)30 Hrs
6. [Data Science with SAS](#)22 Hrs

Self-Paced Courses

1. [Statistics & Probability](#)28 Hrs
2. [Advance Excel](#)24 Hrs
3. [MongoDB](#)14 Hrs
4. [Oracle SQL](#)30 Hrs
5. [Machine Learning](#)32 Hrs
6. [Hadoop Developer](#)30 Hrs

Data Science with R

Learning Objective

This will help you be master in Data Manipulation with R programming, Data visualization, advance analytics topics like regressions, data mining using RStudio. You will work on real life projects and assignments to master data analytics.

Topics

- ❖ Introduction to Data Science and Statistical Analytics
- ❖ Introduction to R
- ❖ Data Exploration, Data Wrangling and R Data Structure
- ❖ Data Visualization
- ❖ Introduction to Statistics
- ❖ Predictive Modeling - 1 (Linear Regression)
- ❖ Predictive Modeling - 2 (Logistic Regression)
- ❖ Decision Trees
- ❖ Random Forest
- ❖ Unsupervised learning
- ❖ Association Analysis and Recommendation engine
- ❖ Sentiment Analysis
- ❖ Time Series

Python for Data Science

Learning Objective

This course lets you master the concepts of widely-used and powerful programming language Python. You will gain hands-on experience in working with the various Python packages like SciPy, NumPy, Matplotlib, Lambda function and more. You will work on hands-on projects in the domain of python and apply it for various domains of big data, data science and machine learning.

Topics

- ❖ Introduction to Python
- ❖ Basic constructs of Python language
- ❖ Writing Object Oriented Program in Python and connecting with Database
- ❖ File Handling, Exception Handling in Python
- ❖ Mathematical Computing with Python (NumPy)
- ❖ Scientific Computing with Python (SciPy)
- ❖ Data Visualization (Matplotlib)
- ❖ Data Analysis and Machine Learning (Pandas) / Data Manipulation with Python
- ❖ Machine Learning, Natural Language Processing (Scikit-Learn)
- ❖ Web Scraping for Data Science
- ❖ Python on Hadoop
- ❖ Writing Spark code using Python

Apache Spark and Scala

Learning Objective

It offer you hands-on knowledge to create Spark applications using Scala programming. It gives you a clear comparison between Spark and Hadoop. The course provides you techniques to increase application performance and enable high-speed processing using Spark RDDs as well as help in customization of Spark using Scala.

Topics

- ❖ Introduction of Scala
- ❖ Pattern Matching
- ❖ Executing the Scala Code
- ❖ Classes concept in Scala
- ❖ Case classes and pattern matching
- ❖ Concepts of traits with example
- ❖ Scala java interoperability
- ❖ Scala collections
- ❖ Mutable collections vs. Immutable collections
- ❖ Use case bobsrockets package
- ❖ Introduction to Spark
- ❖ Spark Basics
- ❖ Working with RDDs in Spark
- ❖ Aggregating Data with Pair RDDs
- ❖ Writing and Deploying Spark Application
- ❖ Parallel Processing
- ❖ Spark RDD Persistence
- ❖ Spark Streaming & Mlib
- ❖ Improving Spark Performance
- ❖ Spark SQL and Data Frames
- ❖ Scheduling / Partitioning

AI and Deep Learning

Learning Objective

This training course offers the comprehensive Deep Learning training that will help you to work on the cutting-edge of artificial intelligence. As part of the training you will master the various aspects of artificial neural networks, supervised and unsupervised learning, logistic regression with neural network mindset, binary classification, vectorization, Python for scripting machine learning applications.

Topics

- ❖ Introduction to Neural Networks
- ❖ Multi-layered Neural Networks
- ❖ Regularization techniques (L1, L2)
- ❖ CNN: Convolutional Neural Networks
- ❖ LSTM: Long Short Term Memory
- ❖ Hidden Markov
- ❖ Chatbots

Tableau Desktop 10

Learning Objective

This will help you master building interactive tableau dashboards and learn data visualization. This Tableau course will prepare you for Tableau Desktop Qualified Associate Certification exam. In this Tableau certification training you will also learn Tableau desktop and public integration with R & Big data. It is best suited for software developers, BI professionals, system and IT administrators.

Topics

- ❖ Introduction to Data Visualization and Power of Tableau
- ❖ Architecture of Tableau
- ❖ Working with Metadata & Data Blending
- ❖ Creation of sets
- ❖ Working with Filters
- ❖ Organizing Data and Visual Analytics
- ❖ Working with Mapping
- ❖ Working with Calculations & Expressions
- ❖ Working with Parameters
- ❖ Charts and Graphs
- ❖ Dashboards and Stories
- ❖ Integration of Tableau with R and Hadoop

Data Science with SAS

Learning Objective

This will help you in learning the domains of business analytics and business intelligence. Upon completion of this SAS Training online you will have enough proficiency in reading spreadsheets, databases, use SAS functions for manipulating this data and debugging it. This Base SAS certification training also includes data mining, data analytics, modeling techniques, visualization of data, predictive analysis and extracting insights through real world case studies.

Topics

- ❖ Introduction to SAS
- ❖ SAS Enterprise Guide
- ❖ SAS Operators & Functions
- ❖ Compilation & Execution
- ❖ Using Variables
- ❖ Creation and Compilation of SAS Data sets
- ❖ SAS Procedures
- ❖ Input statement and formatted input
- ❖ SAS FORMAT
- ❖ SAS Graphs
- ❖ Interactive Data Processing
- ❖ Data Transformation Function
- ❖ Output Delivery System (ODS)
- ❖ SAS MACROS
- ❖ PROC SQL
- ❖ Advanced Base SAS
- ❖ Summarization Reports
- ❖ Web Scraping for Data Science
- ❖ Python on Hadoop
- ❖ Writing Spark code using Python

Self-Paced Courses

Statistics & Probability

This Statistics & Probability course is an in-depth training in the fields of statistics and probability. Some of the aspects in which you will gain proficiency are statistics, rules of probability, Bayes theorem, various methods of sampling, probability distributions, and data analytics.

Advance Excel

This Microsoft Excel course will give you an overview of working with the powerful spreadsheet application Excel. This includes creating dashboards, interactive components, data consolidation and debugging. This Training is useful for working on financial, mathematical and statistical data processing.

MongoDB

This is a very extensive course in MongoDB that is one of the most widely used NoSQL tools in the Big Data domain. Some of the topics that are included in this MongoDB Training are installation of MongoDB, JSON, Data Modeling and Schema Design. You will gain enough expertise in the framework of Data Monitoring, Indexing, and Aggregation.

Oracle SQL

This Oracle SQL Course provides you with the complete skills needed to create, implement and manage robust database applications using the Oracle database tools. Some of the topics covered are – understanding of the Basic Procedural Language/Structured Query Language, subprogram, section and syntax query, DML, advanced DML and scripting. Entire training is in line with the Oracle PL SQL certification.

Machine Learning

This Machine Learning Course is a comprehensive course for mastering the various aspects of machine learning. You will learn about supervised and unsupervised learning, Support Vector Machines, Random Forest Classifiers, the best practices of machine learning and more through hands-on projects and case studies.

Hadoop Developer

This Hadoop Developer Course will help you get a detailed idea about Big Data and Hadoop. Some of the topics included are introduction to the Hadoop ecosystem, understanding of HDFS and MapReduce including MapReduce abstraction. Learn to install, implement various components of Hadoop like Pig, Hive, Flume, Sqoop and YARN.

Project Works

Course	Industry/Domain	Project
Data Science With R	Retail	Augmenting retail sales with Data Science
	Finance	Analyzing pre-paid model of stock broking
	Ecommerce	Cold Start Problem in Data Science
	Ecommerce	Recommendation for Movie, Summary
	Telecommunications	Telecom customer churn ratio prediction
	Gaming	Prediction on Pokemon dataset
	E-commerce	Book Recommender System
Data Science with Python	General	Analyzing the naming pattern using Python
	General	Python Web Scraping for Data Science
	Telecommunications	Predicting customer churn in Telecom Company
	Software	Server logs/Firewall logs
	Banking	Prediction of Stock prices
Apache Spark & Scala	Media	Movie Recommendation
	Internet Services	Twitter API integration for tweet analysis
	Internet Services	Data Exploration Using Spark SQL – Wikipedia data set
Deep Learning with TensorFlow	Internet Services	Image recognition with Tensorflow
	General	Handwriting recognition with Neural Networks
	Ecommerce	Building an AI-based Chatbot
	Ecommerce	Ecommerce product recommendation
Tableau 10 Desktop	Sales	Tableau Interactive Dashboards
	Crime	Segmenting types of crimes and their frequency
	Government	Analyzing economic data
	Retail	Analysing market performance
Data Science with SAS	Healthcare	Categorization of patients based on count of drugs for their therapy
	Sales	Build Revenue projections reports
	Banking	Impact of pre-paid plans on the preferences of investors
	Analytics	k-Means Cluster analysis on iris dataset
1 Data Science Capstone Project		

Job Assistance Program

Intellipaate is offering job assistance to all the learners who have completed the training. You should get a minimum of 60% marks in the qualifying exam to avail job assistance.

Intellipaate has exclusive tie-ups with over 80 MNCs for placements.



Successfully finish the training



Get your resume updated



Start receiving interview calls

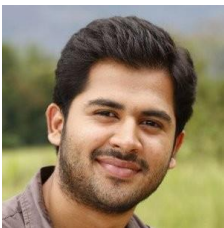
Intellipaate Alumni Working in Top Companies



Anthony Crenshaw 

Master Radio Electronic Communication Officer with Active Security Clearance (Maritime) & Nokia Aircscale Integrator (RF)

I am glad I took the Intellipaate spark training. The trainers offered quality Spark training with real world examples and there was extensive interactivity throughout the training and this made the Intellipaate training the best according to me



Abhimanyu Balgopal 

Product Engineer (BigData)

As a Big Data Engineer, this combo course doubled my interest in various technologies specifically Hadoop, Spark, Storm Scala and others. Very beneficial for those who are passionate about Big Data and Data science and want to learn everything at one place. The courses in this combo are well constructed and each topic is well explained. Thanks Intellipaate!!!



Swetha Pandit 

Big Data Developer at Accenture

Their courses are well structured and taught by recognized professionals. I have found the videos to be of excellent quality. Thanks

[More Customer Reviews](#)

Our Clients



+80 Corporates

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. 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 4. 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 5. 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.