SGMS Academy
Technology for Innovators

DATA ANALYTICS WITH PYTHON & POWER BI

Master Data Analytics skills and take your career to the next level!

4000+ Learners

1:1 Personlized Mentorship

55% Average Salary Hike

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Data Analytics with Python & Power BI

This Data Analytics with Python & Power BI helps you master Power BI, Data Wrangling, Data Mining, Analytics, etc. Learn from working professionals and industry experts through real-time projects and case studies. Enroll in this training program and get Data Analytics certification.

Hottest **Job of 21st Century**

1.7 Million Job Postings
There is a global estimate of 1.7 million job postings for Data Analytics roles by 2022

Skill Development
Data Analytics professionals are equipped with various relevant skills fetching lucrative job offers

Growing Analytics Industry
45.4% CAGR in the global Data Analytics industry

Future-oriented Career
Data Analytics is a budding field; a head start will prove to be beneficial

Popular Degree
40% Data Analytics professionals have a master's degree

High Demand
By 2022, India and US will face a demand supply gap of 430,000 Data Analytics professionals

Our **Credentials**

4000+
Aspiring Active Students

100+
Industry-expert Instructors

600+
Hiring Partners

500+
Corporates Upskilled

55%
Average Salary Hike

80%
Low cost compare to other's

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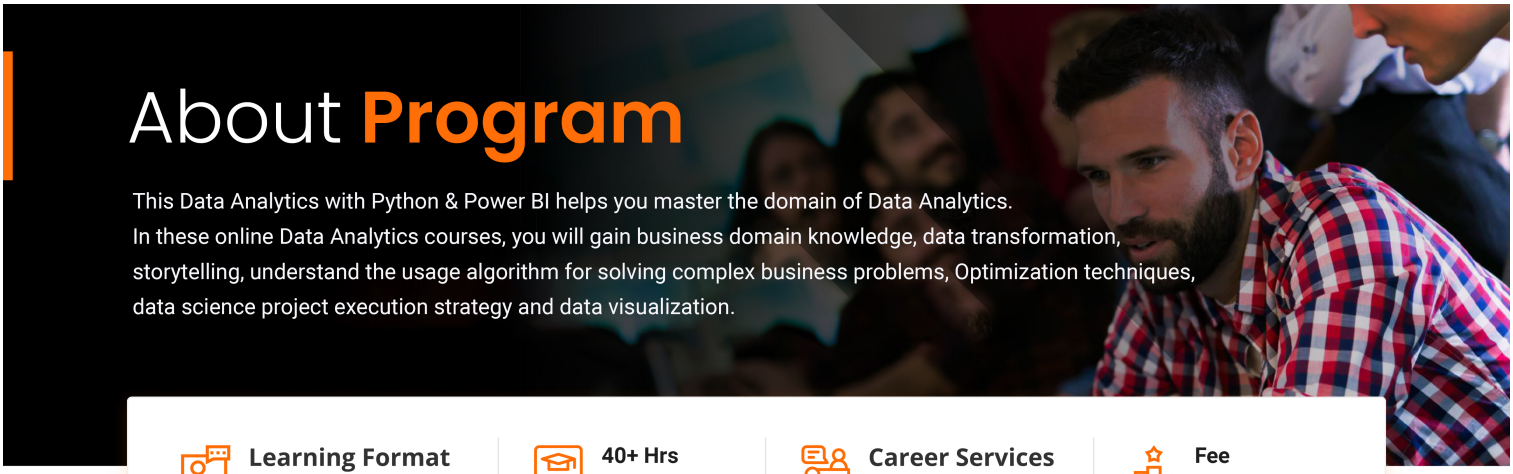
About **Program**



This Data Analytics with Python & Power BI helps you master the domain of Data Analytics.
In these online Data Analytics courses, you will gain business domain knowledge, data transformation, storytelling, understand the usage algorithm for solving complex business problems, Optimization techniques, data science project execution strategy and data visualization.

Learning Format	40+ Hrs	Career Services	Fee
Online	Duration	by SGMS Academy	₹6550/Course

Key **Highlights**

- 50+ Live Sessions
- 200 Hrs Projects and Exercises
- Learn from IIT Madras Faculty
- Job Assistance
- Resume preparation and LinkedIn profile Review
- 24*7 Support
- 218 Hrs Self-paced Videos
- 16+ Courses
- Flexible Schedule
- Lifetime Free Upgradation
- 1:1 with Industry Mentors
- No-cost EMI Option

Program **Pedagogy**

Instructor-led Training
Get trained by top industry experts

Hackathons
Get a sense of how real projects are built

24*7 Technical Support
Speak to Subject Matter Experts anytime and clarify your queries instantly.

Peer Networking and Group Learning
Improve your professional network and learn from peers through our innovative Peer Chat tool.

Self-paced videos
Learn at your own pace with world-class content

Gamified Learning
Get involved in group activities to solve real-world problems

Projects and Exercises
Get real-world experience through projects

1:1 Personalized Learning
Hands-on exercises, project work, quizzes, and capstone projects

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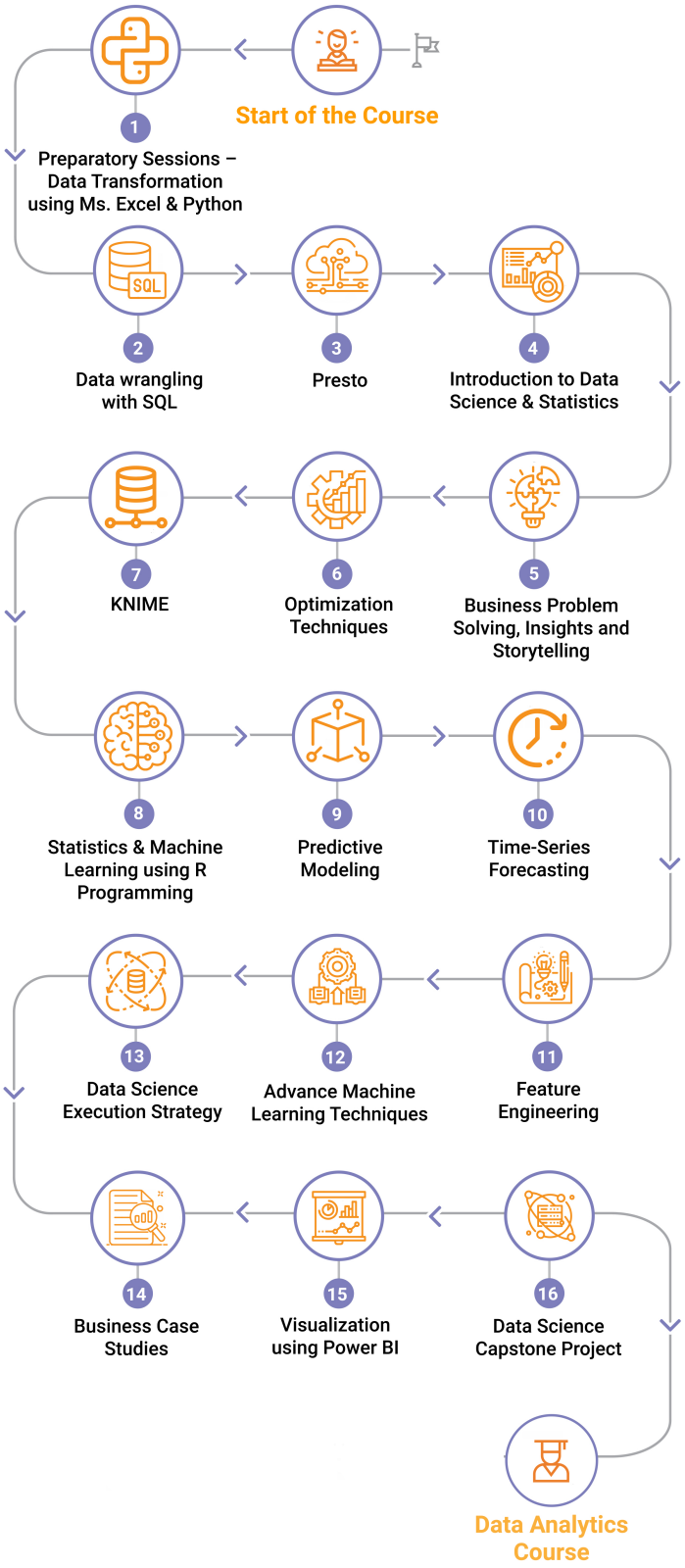
Live **Courses**



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Program **Curriculum**

Module 1

Preparatory Sessions – Data Transformation using Ms. Excel & Python

Learn how to do data analysis, data transformation and other important data analysis functions. Basic fundamental of Python and learn how to do data analytics using the same.

Module 2

Data wrangling with SQL

- Introduction to SQL
- Database normalization
- Entity-relationship model
- SQL operators
- Join, tables, and variables
- SQL functions
- Subqueries
- SQL functions, views, and stored procedures
- User-defined functions
- SQL performance and optimization
- Advanced concepts

Module 3

Presto

- Introduction to Presto
- Writing Queries in Presto on large data sets.
- Data Transformation using Presto

Module 4

Introduction to Data Science & Statistics

- Descriptive Statistics
- Introduction to Probability
- Probability Distributions
- Hypothesis Testing and Estimation
- Goodness of Fit

Module 5

Business Problem Solving, Insights and Storytelling

- Business domains
- Understanding the business problem and formulating hypotheses
- Exploratory data analysis
- Data storytelling: Narrate stories in a memorable way
- Project on deriving business insights and storytelling

Module 6

Optimization Techniques

- Linear programming
- Goal programming
- Integer programming
- Mixed integer programming
- Distribution and network models

Module 7

KNIME

- Introduction to KNIME
- Working with data in KNIME
- Loops in KNiME
- Webscraping in KNIME
- Hyperparameter optimization in KNIME
- Hyperparameter optimization for Machine Learning Models using loops in KNIME
- Feature Selection in KNIME

Module 8

Statistics & Machine Learning using R Programming

- Programming with R
- Advance Statistics
- Data Mining

Module 9

Predictive Modeling

- Multiple linear regression
- Logistic regression
- Linear discriminant analysis

Module 10

Time-Series Forecasting

- Introduction to time-series
- Correlation
- Forecasting
- Autoregressive models

Module 11

Feature Engineering

- Handling unstructured data
- Machine Learning algorithms
- Bias variance trade-off
- Handling unbalanced data

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Program **Curriculum**

- Boosting
- Model validation

Module 12

Advance Machine Learning Techniques

- Hyper parameter optimization
- Advance Machine Learning Libraries – XGBoost
- Solving Problems on Kaggle

Module 13

Data Science Execution Strategy

- Framework to Data Science strategy
- Mapping Data Science with data architecture strategy
- Executing Data Science strategy

Module 14

Business Case Studies

- Marketing & retail analytics
- Social analytics
- Logistics & supply chain
- Financial analytics

Module 15

Visualization using Power BI

- Introduction to Power BI
- Data Extraction
- Data Transformation – Shaping & Combining Data
- Data Modelling & DAX
- Data Visualisation with analytics
- Power BI Service (Cloud), Q&A, and Data Insights
- Power BI Settings, Administration & Direct Connectivity
- Embedded Power BI with API & Power BI
- Power BI Advance & Power BI Premium

Module 16

Data Science Capstone Project

In the Data Science & Business Analytics Capstone project, you will use all the knowledge and skills you have acquired throughout this advanced certification program and get real world Industry project exposure.

Skills to Master

- SQL
- Data Analysis
- Data visualization
- Machine Learning
- Advanced Statistics
- R Programming
- Data Wrangling
- Prediction algorithms
- Time Series
- PowerBI
- Data Mining

Tools to Master

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Course **Projects**

Projects cover the following industries:

Beginner

Predicting class of a flower with petals data

This project is made to predict the class of a flower. By analyzing the data about the petal and their dimensions, the class of the flower would be determined using a trained Machine Learning model that has optimum accuracy.

Beginner

Data Analytics on Census dataset

The project is meant to analyze and predict whether an individual has an annual income of more than Rs 50000 or less using various machine learning techniques, some of which are supervised and unsupervised learning.

Beginner

Fraud Detection

The project will be creating a model which would help in detecting Credit Card fraud using Machine Learning subcategories like supervised, unsupervised, and reinforcement learning techniques like Neural Network and Random Forest.

Intermediate

Analyzing impact factors of the prepaid model in telecom

The goal of this project is to find the factors that have maximum impact on the preferences of the prepaid model. The project also aims at identifying the variables that are majorly correlated with the impacting factors.

Intermediate

Pokemon Analysis

Select a pokemon whose primary type is “Grass”, secondary type is “Poison” with the maximum speed. It creates a model that predicts whether the selected pokemon is Legendary or not using Machine Learning and data analysis techniques.

Intermediate

Stock Market Analysis

This project focuses on Machine Learning by creating a predictive data model to predict the future stock prices. It also analyzes the current trends in the stock market using algorithms like Linear Regression and k-Nearest Neighbors.

Advance

Comment Identity & Classification

Work on the comment dataset of Yelp to build a multi-headed model that can identify & categorize various types of toxic comments (obscenity, insults, threats etc.). It must allow the user to find and select the required type

Advance

Book Recommender

This project aims at building a book recommendation engine based on past reading and buying history of an individual. It will analyze the dataset using Machine Learning techniques, R programming and its various libraries.

Advance

Loan Approval Prediction

The project aims to analyze whether the applied loan would be approved or not by identifying the variables correlated with impacting factors. It is predicted using techniques such as Logistic Regression, Decision Tree and Random Forest.

Advance

Recommendation Engine using Netflix prize dataset

The recommendation engine is built using Netflix prize dataset that will collect the data from various sources of a user, anticipate their preferences and will recommend movies according to the user’s behavior and choices made earlier.

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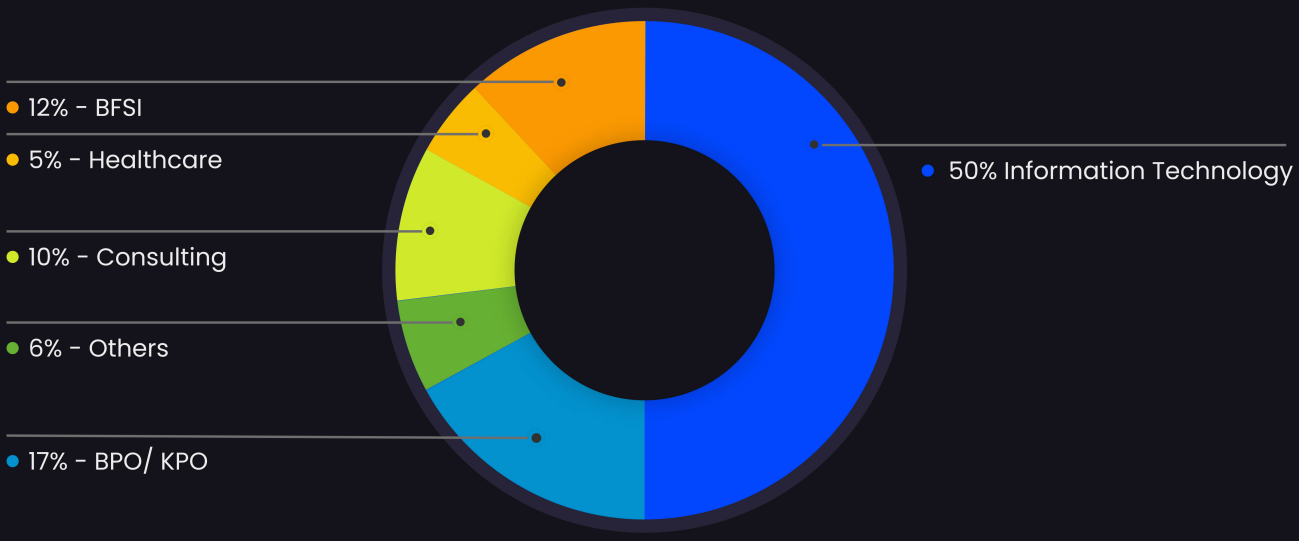
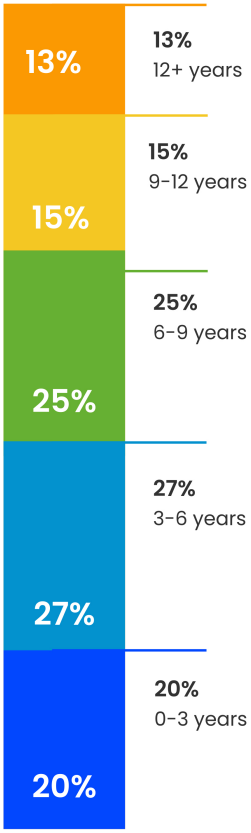
Meet the **Batch**

Industries Our Learners Come From



Work **Experience**



Some of their current employers include

amazon | citi | Capgemini
BOSCH | pwc | EY
accenture | Adobe | TATA CONSULTANCY SERVICES
vmware | Abbott | DELL

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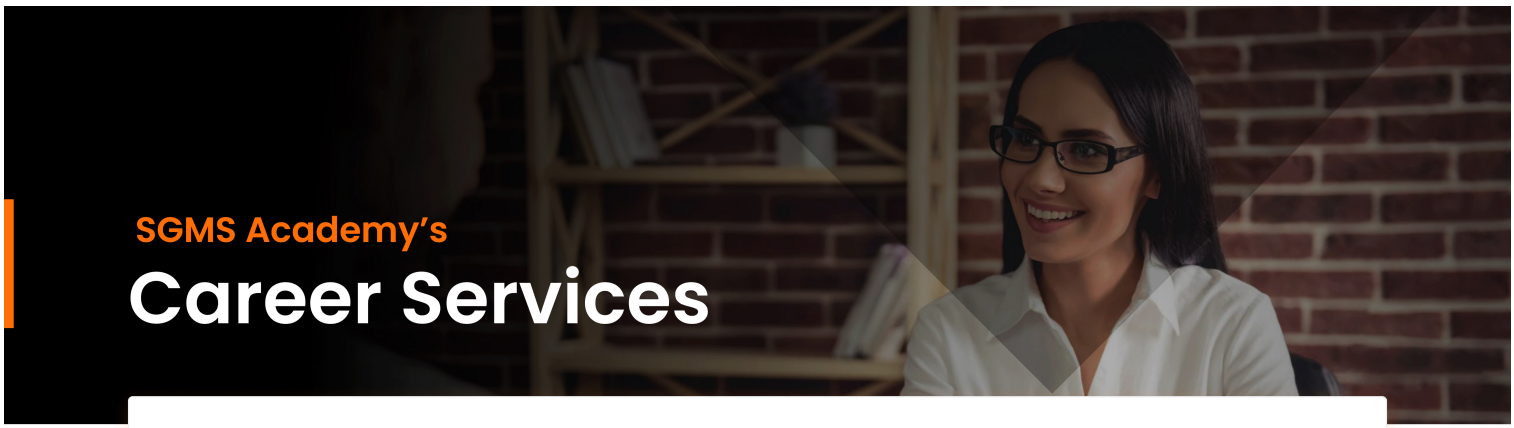

SGMS Academy's

Career Services

500+ Webinars

600+ Job Shares

600+ Hiring Partners

55% Avg. Salary Hike*

What Makes Us **Tick**

Career-oriented Sessions
Attend 10+ career-oriented sessions by industry mentors and plan your career trajectory

Profile Building
Craft a Data Analytics resume and LinkedIn profile and make an impression on top employers

Mock Interview Preparation
Prepare with mock interviews including most asked questions by top employers

1:1 Mentoring Sessions
Get 1:1 guidance at every step in your career transition to Data Analytics

Placement Assistance
Placement opportunities are provided once the learner is moved to the placement pool. Get noticed by our 400+ hiring partners.**

Dedicated Job Portal Access
Get exclusive access to 200 job postings per month on Intellipaat's job portal

Job Fairs
Job fairs are conducted regularly to introduce learners to major organizations

Hackathons
Work in terms and get exclusive access to hackathons

Learner **Reviews**

Ramyasri Mandepudi
Recruiter at Goodwill Technologies

The trainers are amazing and the lectures included thorough understanding of all the concepts. Real life examples and the career mentoring sessions are useful at every step.

Kevin K Wada
Oracle Developer at Free Agent

The course is thorough, well-structured and provides a comprehensive learning in the Data Analytics field. Also, the practice tests and projects helped me in building strong skills in analytics.

Sampson Basoah
Tableau Developer

The course content is updated, industry-relevant and taught in-depth by the instructors. The instructors at Intellipaat are well-experienced. The Data Analytics course has helped me put the skills into practice

* Past record is no guarantee of future job prospects | ** Placement Assistance doesn't guarantee you a job

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