# Learnbay

# Data Analytics
## Certification Program

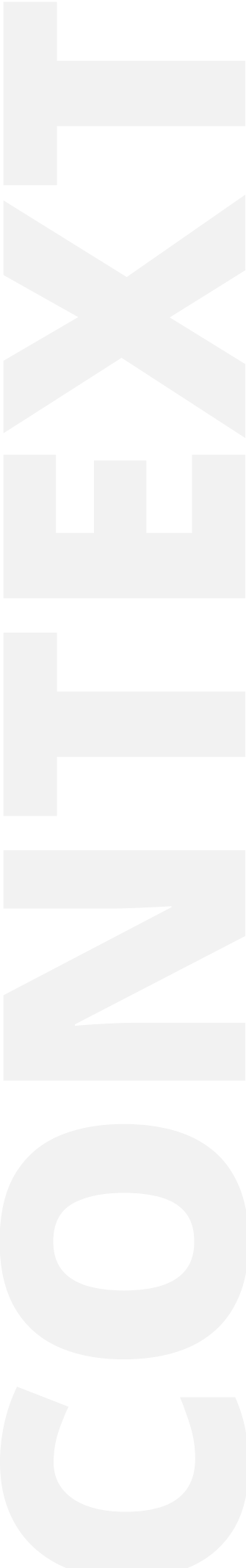- ✅ 450+ Hiring Partners
- ✅ Hybrid Model for Project Sessions
- ✅ 175% Average Salary Hike

🌐 www.learnbay.co

# CONTEXT

# About The Program

Our Data Analytics program equips professionals with practical skills and expertise to succeed in the rapidly evolving field. Students learn data visualisation, modelling, database management, ethics, and programming languages like Python, SQL, and Tableau. Graduates are in high demand in healthcare, finance, marketing, and technology. We offer affordable and industry-relevant education to empower India's workforce.

"

**We exist to provide accessible, reasonable, and industry-relevant education that empowers India's workforce to grow and develop.**

**2cr**
worth scholarships awarded

**600+**
professionals secured jobs after a career break

**35k+**
Trusted Learners

4.79/5

COURSE REPORT
4.66/5

G
4.8/5

Great Place To Work. Certified
IAF9001 · AGE 2024
INDIA

# Program Details

## COURSE PREREQUISITE

Prior knowledge of **programming/coding** is not mandatory. Just the urge to learn programming and basic ideas about advanced math is enough.

## PROGRAM ELIGIBILITY

- ✅ **Working professionals** having more than 6 months of experience in any domain (Technical/Non-Technical)

## KEY FEATURES

- ✅ Dedicated Placement Cell | 100% Guaranteed Interview calls
- ✅ Globally Recognised **Certification from IBM & Microsoft**

## JOB ROLES TO TARGET

Get equppied with the industry relavant skills and aim for job roles like People Analytics, Talent Analytics, Workforce Analytics, Predictive Analytics.

Click below

**Check Eligibility**

# Alumni Spotlight

Learnbay has helped me a lot to learn data science applications in the e-commerce industry. The live class concept was really helpful in receiving proper DS training. Thanks to all my mentors and the placement team.

**Shravanthi A**
Data Scientist

| Mechanical Domain | ➡ | Data Scientist @ | Ford | 📈 **230%** Salary Hike |

The course structure is excellent with emphasis on concept building and tools & software at the same time. The support team is excellent and supportive and quite agile to respond to doubts.

**Preksha Mishra**
Lead Data Scientist

| Telecom Domain | ➡ | Data Scientist @ | HCL | 📈 **140%** Salary Hike |

**Karan Chawala**

XC xceedance
⬇
**EXL**
Data Scientist

**Jaya Sinha**

ADITYA BIRLA GROUP
⬇
Infosys
Senior Analyst

**Shubham Dev**

publicis sapient
⬇
brillio
Lead Data Analyst

# Alumni Spotlight

Thanks to the Learnbay data science course & excellent guidance, I was able to ace the TCS interview and secure a job with a 210% pay raise. The real-world time projects helped me develop my concepts as a data scientist.

**Mohd. Israr**
Data Scientist

| Mechanical Domain | ➡ | Data Scientist @ tcs | 📈 **210%** Salary Hike |

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When I joined Learnbay I did not have any knowledge apart from the very basics. I gradually build my concept via various trainers and get trained in data science with strong knowledge/concepts.

**Saurabh Kumar**
Data Scientist

| Mathematics Professor | ➡ | Data Scientist @ Teleperformance | 📈 **135%** Salary Hike |

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**Aravind**

TheMathCompany
⬇
CATERPILLAR®

**Senior Data Scientist**

**Ritesh Kumar**

unacademy
⬇
Capgemini

**Data Scientist**

**Ramki**

cognizant
⬇
ANBSYSTEMS
energizing solutions

**Data Analyst**

# Learnbay's ProjectLab

Choose Learnbay for your career journey because we're more than just a training provider. Our Project Innovation Lab lets you apply your skills in real-world scenarios. Get **dual certifications** for a competitive edge. Specialize in your desired domain. Discover how Learnbay can boost your career growth. Don't settle for less – choose Learnbay, your path to success!

## 1 Project Innovation Lab

Replicate a real-world industry environment for hands-on project experience.

## 2 Domain Electives

Enhance career prospects and excellence in your chosen field with our domain electives.

## 3 Dedicated Placement Cell

Experience 100% job assistance with guaranteed interview call from leading MNCs globally.

## 4 Certification

Gain top-notch skills for a successful career through our degree and certification program

Learnbay's Project Innovation Lab replicates industry like environment for real time projects. With our **ProjectLab,** you gain real proof of hands-on experience by having your project certified by the industry.

In our ProjectLab, you work like a data scientist with dedicated project mentors from industry and get certified on capstone project.

**450+**
Hiring Partners

**PUNE**

**35k**
Trusted Learners

**1-1 Doubt Session**

**HYDERABAD**

Capstone Project
Certificate from IBM

**DELHI**

Project Innovation Labs Across India

**BENGALURU**

# 2 Domain Electives

We offer Domain Electives for various industries including BFSI, Retail, Healthcare, Manufacturing, and Supply Chain. This ensures that you gain expertise directly relevant to your current domain.

With our program, you can make your past domain experience relevant and position yourself for a significant salary hike.

## (Select any one)

### BFSI

Advanced analytics for risk assessment and fraud detection in finance.

**Brochure** ⤓

### Healthcare

Data-driven insights for improved patient care and medical research.

**Brochure** ⤓

## Manufacturing

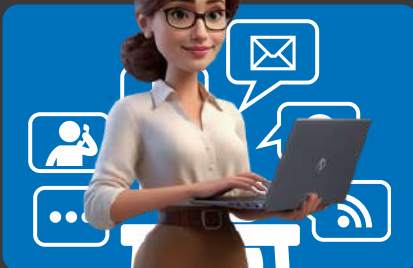Optimising operations with data analytics and predictive maintenance solutions.

**Brochure** ⤓

## Supplychain, E-com & Retail

Enhancing supply chain visibility and customer experience with data.

**Brochure** ⤓

## Sales, Marketing and HR Domain

Data science can help marketers tailor their efforts to suit individual needs and preferences.

**Brochure** ⤓

## Energy Oil and Gas

Data science can help the energy and utilities industry optimize the performance of critical assets.

**Brochure** ⤓

## Media, Hospitality & Transportation

help businesses improve personalization, implement dynamic pricing, and perform predictive maintenance

**Brochure** ⤓

# 3 Career Service

### Get 1 years of Job and Placement support

Unleash your career potential with 1 year of unlimited job access, interview support, and profile review.

### 3 Mock Interviews with Industry Experts

Master the art of data science & AI and stay ahead of the curve with mockups and industry insights

### Resume Building Session

Craft a powerful resume showcasing your expertise in software development to stand out from the competition

### 8-10 Interview Cell

Receive 8-10 interview calls from a diverse pool of interested employers/recruiters.

# 3

# Certificate

**IBM**

This is to certify that

**Your Name**

has completed all courses in the learning path

**Course Name**

a learning path on leadership.skillsnetwork.site

Provided by **IBM Developer Skills Network**

Issued by

**Learnbay Data Science And AI**

Sample Certificate

Issued on

**April 05, 2022**

For: Shilpa
Program Director
Skills Network, 2022

Authenticity of this certificate can be validated by going to
https://learnevista.skillsnetwork.site/certificates/4689f73f65-2b42-450a-9980-733327b006d

## IBM Course Certificate

✔ Obtain an internationally recognized certificate through training.

✔ Validate your Data Science skills with IBM Certificate

✔ Enhance your IT profile with IBM's certification

# Others Vs Learnbay

| | Learnbay | Others |
|---|---|---|
| Guaranteed Interview Calls | ✓ | ✗ |
| Industry capstone project certificate from IBM | ✓ | ✗ |
| Domain specialized programs for professionals | ✓ | ✗ |
| 100% live interactive sessions with industry experts | ✓ | ✗ |
| On-demand video call with industry experts | ✓ | ✗ |
| Personalised Resume Review Session | ✓ | ✗ |

# Program Fee & Financing

## Scholarship

Scholarships are awarded based on profile review. Eligible candidates can avail upto 25% scholarship on desired courses. Click the button below to apply.

Click below

**Check Scholarship Eligibility**

## Financing as low as

### Rs. 5,244/month

### No Cost EMI

Razorpay

LIQUILOANS

Propelld

ShopSe

## Program Fee

Rs. 80,000/- +18% GST

# Learning Path

**L1** — **Cohort Orientation + Special Programming Classes**

**L2** — **Python Programming (Basic + Advance)**
Python, Anaconda, Github, Pandas

**L3** — **Statistics and Machine Learning**
Matplotlib, Scikit-Learn, Seaborn

**L4** — **Data Analytics Tools**
SQL, MongoDB, Tableau, PowerBI, Big Data & Spark Analytics, Time Series

**L5** — **Essentials**
Excel

**L6** — **AI Generative Tools and Future Trends**
ChatGPT, Midjourney, DALL·E

# Program Syllabus

## Preparatory Classes (Programming + Maths)

### Cohort Orientation

- A brief introduction to tools related to data
- Learn about particular real-time projects and Capstone projects
- Data and its impact on career opportunities
- Utilizing data, to enhance industrial operations and management.

### Programming Fundamentals

- Introduction to Anaconda & Jupyter notebook
- Flavors of python Introduction to Git, GitHub
- Python Fundamentals.

**Tools covered**   python   ANACONDA.   jupyter   GitHub
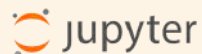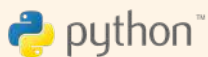
### Fundamentals of Statistics

- Mean, Median, Mode .
- Standard Deviation, Average. Probability, permutations, and combinations
- Introduction to Linear Algebra.

*Note:*

*This session is specially designed for non- programmers to understand basics of computer programming and math.*

*Those who wish to brush up their programming skills can also attend this session.*

## Download Detailed Curriculum ⤓

# Program Syllabus

## Python programming

### Basic Python

- Programming Basics & Environment Setup
- Strings, Decisions & Loop Control
- Python Data Types
- Functions And Modules
- File I/O An d Exceptional Handling and Regular Expression

*Class Hands-on:*
*6 programs/coding exercise on string, loop and conditions*

*8+ Programs to be covered in class of functions, Lambda, modules, Generators and Packages*

*10+ Programs to be covered in class from File IO, Reg-ex and exception handling*

**Tools covered** | NumPy | pandas | matplotlib | seaborn

### Advance Python

- Data Analysis Using Numpy
- Data Analysis Using Pandas
- Data Visualization using Matplotlib
- Data Visualization using Seaborn

Includes coding challenges & assessment

*3 Case Study on Numpy, Pandas, Matplotlib*
*1 Case Study on Pandas And Seaborn*

**Real time project will be covered after Python completion with 2 hours of assessment (coding and objective questions)**

**Download Detailed Curriculum** ⬇

# Program Syllabus

## Statistics & Basic Machine Learning

### Statistics

- Fundamentals of Math and Probability
- All about Population & Sample
- Discrete Probability Distributions - Binomial, Poisson etc
- Introduction to Statistics, Statistical Thinking
- Descriptive Statistics
- Inferential Statistics
- Hypothesis Testing
- Linear Algebra
- Data Processing & Exploratory Data Analysis
- EDA,Statistics Assignments: Total 4 practice sets and Assignments from Statistics..

### Machine Learning

- Introduction to Machine Learning
- Regression and Classification Models
- Linear Regression Model
- Data Preprocessing
- Encoding the Data
- Logistic Regression Model
- Evaluation Metrics for Classification model
- K Nearest Neighbours Model
- Decision Tree Model
- Random Forest Model
- Hyperparameter Tuning
- Naive Baye's Model,Case Study on Kart Model Business & Random Forest.

**Download Detailed Curriculum** ⬇

# Program Syllabus

## Data Analytics Tools

### SQL

- SQL and RDBMS
- NoSQL, HBase & MongoDB
- JSON Data & CRUD
- Programming with SQL

**Assignments**
- Working with multiple tables
- Practice Joins, Grouping and Subqueries
- Using GROUP BY and HAVING Clauses
- Practice Aggregation Queries

### MongoDB

- MongoDB Ecosystem
- MongoDB Structures
- MongoDB Shell vs MongoDB Server
- Data Formats in MongoDB
- Working with MongoDB Compass
- Working with Numeric Data
- Working on Scheme Designing

**Assignment**
Obtain the data in the format you want by formulating queries that are both effective and high-performing.

*Projects are the culmination of your learning journey, where you will tackle real data-related problems.*

### Tableau

- Dashboard and Stories
- Visual Analytics
- Custom Geocoding
- Polygon Maps
- WMS and Background Image

**Assignment**
- Connecting data source and data cleansing
- Working with various charts
- Deployment of Predictive model in visualization

# Program **Syllabus**

## Data Analytics Tools

### PowerBI

- Overview of the Workflow in Power BI Desktop
- Introducing the Different Views of the Data Mode
- Working with Time Series
- Scatterplots and BI Reports
- Connecting Dataset with Power BI

**Assignments**
- Create Bar charts
- Create Pie charts
- Create Tree maps
- Create Donut Charts
- Create Waterfall Diagrams
- Creating Table Calculations for Gender

### Big Data & Spark Analytics

- Introduction To Hadoop & Big Data
- What is Spark
- Getting to know PySpark Hands-on: Map reduce Use Case : Youtube data analysis & Spark RDD programming.

### Time Series

- Introduction to Time Series Forecasting
- Introduction to ARIMA Models,Case Study on Time series classification of smartphone data to predict user behavior, Performing Time Series Analysis on Stock Prices & Time series forecasting of sales data

**Download Detailed Curriculum**

# Program Syllabus

## Excel

- Getting started with Excel
- Using Excel Toolbars: Hiding, Displaying, and Moving Toolbars
- Switching Between Sheets in a Workbook
- Entering Date Values and using AutoComplete
- Inserting and Deleting Cells, Rows, and Columns
- Working with the Forms Menu
- Creating & Working with Charts
- Changing a Chart Type and Working with Pie Charts
- Data Analysis & Pivot Tables

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# Program Syllabus

## AI Generative Tools and Future Trends

### Emerging Trends in AI and Generative Modeling

- Exploring other AI generative tools beyond ChatGPT and DALL·E
- Overview of Midjourney
- Discussion on future trends and advancements in AI generative tools
- Open-ended project and/or presentation on a selected topic, incorporating learned concepts

### Natural Language Processing and ChatGPT

- Introduction to natural language processing techniques
- Understanding ChatGPT and its architecture
  Hands-on exercises using ChatGPT for text generation
- Fine-tuning ChatGPT for specific applications

### DALL·E: Image Generation with AI

Exploring image generation using DALL·E
- Hands-on exercises for creating unique images with DALL·E
- Ethical considerations and limitations of AI-generated images

### Graph Neural Networks (GNN) for Data Analysis

- Overview of Graph Neural Networks (GNN) and their applications
- Hands-on exercises using GNN for tasks such as node classification and link prediction
- Case studies on real-world applications of GNN in data science

# Program **Syllabus**

## Python Bootcamp for AI

- Python Essentials: Syntax, Data Types, and Variables
- Flow Control: Conditionals and Loops

## Build Your Interview Assistant

- Project Overview: Interview Automation Bot
- Components & Architecture
- Natural Language Models (LLMs): Introduction and Uses

## Large Language Models (LLM

- Historical Overview of NLP: From Rule-Based Systems to Machine Learning.
- Evolution of Neural Network Architectures in NLP.

## Visual AI for eCommerce

- Introduction: Digital Transformation for Offline Businesses
- Multimodal Models: DALL-E and Beyond
- Style & Photography Principles for Visual AI

## Intelligent News Aggregator

- Project Outline: Personalized News Recommendation
- GPT-3 & Copilot for Code Automation

# Program Syllabus

## Customer Support Bot - HelpMate Pro

- Project Introduction and Components
- Embeddings vs Fine-Tuning: When and How
- Semantic Search in Customer Service

## Knowledge Discovery Bot

- Project Overview and Architecture
- LangChain Tools and Concepts

## Azure OpenAI Integration

- OpenAI on Azure: Services and Scalability
- Revisiting HelpMate Pro: Scaling Strategy

## The Future & Ethics of Generative AI

- Responsible AI: Bias and Fairness
- Future Trends: Multimodal Models and RLHF
- Closing Remarks
- Assessment: MCQ

## Capstone Project (3 Weeks)

- Building an Integrated Prompt Engineering Solution
- Project Submission and Peer Review

# Real-time Projects

## J.P.Morgan
**12 hours**

### Learn and develop classification techniques for the digital transformation of banking

JPMorgan offers tax-friendly insurance choices. You can help them forecast insurance premiums. Targeted marketing using your Random Forest Algorithm skills can help obtain better premium values.

python | pandas | scikit learn

## NETFLIX
**17 hours**

### Building a content recommendation model on the basis of regional viewer categorization

Netflix is a global entertainment video streaming site. They offer content in various regional languages. Build a local recommendation engine for Netflix customers residing in south Bangalore on their weekend and weekday activities, utilizing NLP.

NumPy | SQL | Jupyter

## OLA
**18 hours**

### Reduction of waiting time via a highly precise forecasting model

Make a demand forecasting model based on specific time period rider demands. Such a model will help both riders and cab drivers to ensure the least possible waiting time. You can include measures like latitude and longitude identification.

python | TensorFlow | Apache Spark

## saudi aramco
أرامكو السعودية
**14 hours**

### Understanding in-depth about logging while drilling (LWD) technique

Saudi Aramco company is working on the development of high-efficiency drilling models. Use the bright sides of big data analytics to identify the most cost-effective and highly productive drilling sites.

hadoop | matplotlib | aws

# Real-time Projects

## Career progression planning of employees with workforce defections and efficiency

**19 hours**

IBM intends to boost its HR department by identifying employees' masked inconsistency. They need models to identify the graphical variations in their 14000+ employees' performances. Help them build models with your regressions and other ML abilities.

python | pandas | scikit learn

## Descriptive study of trends and irregularities with prediction analysis for conversion

**21 hours**

Swiggy seeks a broad marketing campaign. But they need automated keyword generation tools & proper message preparation and delivery of the same to the right audience at the right time. Help them with text analytics and NLP-based keyword research.

TensorFlow | SQL | Jupyter
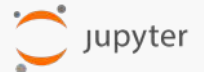
## Forecasting future sales with trends and price maximization

**17 hours**

BMW customers can sell old vehicles, but rivals provide superior resale prices. BMW's data science-powered software will deliver the greatest market value for used vehicles based on Km travelled, daily price changes, production dates, etc. Such tasks build analytical abilities.

Keras | GitHub | scikit learn

## Understanding covid-19 cases and fatality rate by time series forecasting

**13 hours**

Samsung will launch a new healthcare app soon. The key goal of this app is an accurate human activity tracking and providing relevant health-related recommendations. Continuous analysis of a massive amount of mobile data is required for such an app.

python | matplotlib | Azure

# Contact Us

Click here to whatsapp

or call us at
+91 77956 87988

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