



IBM - Data Science Professional Program

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About the Program

Unlock the Power of Data

In today's data-driven world, the ability to analyze and interpret complex data sets is crucial for informed business decisions. Our Data Science Professional Program is designed to equip you with essential skills and knowledge to excel in data science. From data analysis and visualization to machine learning and big data technologies, our comprehensive curriculum ensures you gain practical, hands-on experience.



This **IBM** - **Data Science Professional Program** covers self-paced e-learning materials including course content, Lab/Assignment, hands on experience and Certification of IBM after completing the exam by IBM.

What You Will Learn

Python : Begin your journey with an in-depth understanding of Python, a powerful programming language used extensively in data science. This course covers the basics and helps you build a strong foundation for more advanced topics.

Introduction to Data Science / Data Science 101 : This course provides a comprehensive introduction to data science, covering fundamental concepts, methodologies, and the overall landscape. Learn the basics of data collection, cleaning, and exploration.

Python for Data Science : Delve deeper into Python with a focus on data science applications. This course teaches you to utilize Python libraries such as Pandas, NumPy, and SciPy for data manipulation and analysis.

Data Science Methodology : Understand the structured approach to solving data science problems. This course covers the data science lifecycle, from understanding the problem to deploying the model, ensuring a robust methodology.

Data Visualization with Python : Learn to create compelling visualizations using Python libraries like Matplotlib and Seaborn. This course emphasizes the importance of data visualization in interpreting and presenting data insights effectively.

Data Analysis with Python : Develop advanced data analysis skills using Python. This course covers statistical analysis, data wrangling, and exploratory data analysis techniques to draw meaningful insights from data.

Data Visualization with R : Explore data visualization techniques using R. This course introduces you to R libraries such as ggplot2, enabling you to create interactive and informative visual representations of data.



R for Data Science : Gain proficiency in R for data science applications. Learn to manipulate and analyze data using R, focusing on its powerful capabilities for statistical analysis and graphical representation.

Scala 101 : Discover the basics of Scala, a versatile programming language that integrates well with big data technologies. This course covers essential Scala concepts and prepares you for handling large-scale data processing.







Course Benefits

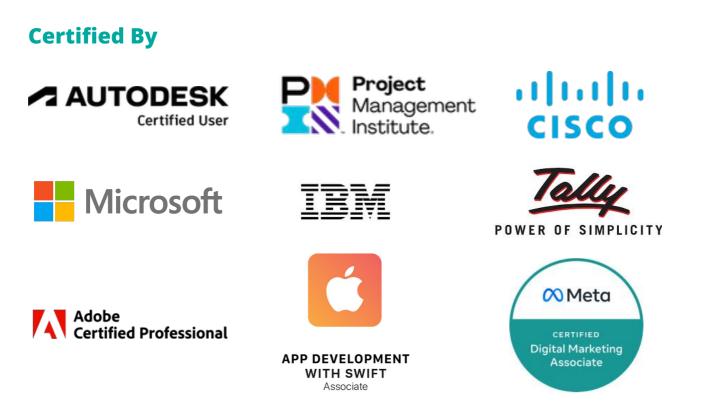
	- 1600+ Enrolled	4.8/5 — Rating	
Self Paced E-Learning Course Material	Lab/ Assignments	Hands on Practice Test	60+ Hours
<mark>6</mark> Months	Dought Clearnace Session	IBM Certifications	100% Job Assistance



About TheLearnAge

TheLearnAge is your ultimate online educational platform offering over 350+ online courses designed to upgrade your skills and keep you ahead in today's smart world. With industry-leading partners such as **IBM**, **Microsoft**, **Cisco**, **Tally**, **Adobe**, **Autodesk**, **Apple**, **PMI**, **Meta**, **and many more**, you can learn directly from the experts and get certified in the latest technologies and tools that drive innovation.

TheLearnAge provides certification programs to validate skills and boost career opportunities within a flexible and innovative learning setting. Students have the freedom to engage with state-of-the-art curriculum at their preferred speed, enhancing their market value and competitiveness. With a user-friendly interface and a dedication to excellence, the platform guarantees a top-notch educational journey for skill improvement and career progression.



Master the future with TheLearnAge. Learn from the best, including IBM, Adobe, Autodesk, PMI, Cisco, Microsoft, Tally, Apple, Meta. Get certified in the latest technologies. Advance your career with flexible, expert-driven courses.

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Why TheLearnAge



Extensive Course Selection

Offers over 350+ online courses covering a wide range of topics to upgrade skills and knowledge.

Co Mic Me

Industry-Leading Partners

Collaborates with top industry leaders like IBM, Microsoft, Cisco, Tally, Adobe, Autodesk, Apple, and PMI, Meta, providing expert-led courses and certifications.



Official Certification Program

Provides certification programs that validate learner's skills and credentials, enhancing their career prospects and competitiveness in the job market.



Placement Opportunities

Enables learners to receive placement offers from big companies, boosting their employment potential



Intuitive Interface

Features a user-friendly learning management system that makes course navigation and usage seamless.



Marketability and Career Enhancement

Equips learners with the skills and certifications needed to succeed and stay competitive in today's rapidly evolving job market.

Eligibility Criteria

For admission into this Full Stack Developer, candidates :

- 12th class or an 1 equivalent level.
- A degree/diploma in engineering
- 🖌 🛛 A bachelor's or master's in computer science 🖄
- Inclination towards Programming



1. Sign up Sign Up with Mobile Number / Email ld.	2. Browse and Select Once you have signed up and logged in, you can start exploring our wide range of specialized and job-ready e- learning programs & certifications.
3. Add Courses to Cart After you've found the courses/ programs that align with your learning goals, you can add them to your cart.	4. Make Payment When you are ready to enroll in your selected courses/programs, you can proceed to make the payment securely on our platform.
5. Confirmation Email After successful payment, you will receive a confirmation email acknowledging your course/program enrollment within 24-48 Hours.	6. Access Course Materials Once you receive the email with course links, you can access the course materials and resources.



Working Professional

Any technical Degree

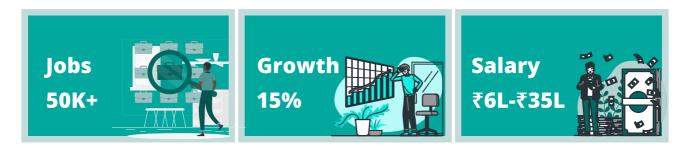




Demand for Data Science Engineer

The role of a Data Science Engineer has emerged as one of the most sought-after careers in the modern job market. Organizations across various industries are increasingly relying on data-driven decisionmaking, creating a high demand for professionals who can effectively analyze and interpret complex datasets.





Key Drivers of Demand

1. Technology and IT

Tech giants and IT firms are at the forefront of leveraging big data. Companies like Google, Amazon, and Microsoft are constantly seeking data science engineers to develop innovative solutions, optimize operations, and enhance customer experiences.

2. Healthcare

In healthcare, data science engineers play a crucial role in advancing medical research, improving patient care, and optimizing hospital operations. They work on projects ranging from genomic analysis to predictive analytics for patient outcomes.

3. Finance and Banking

Financial institutions are heavily investing in data science to enhance risk management, detect fraud, and personalize customer services. Data science engineers help banks and financial firms make informed decisions by analyzing market trends and consumer behavior.

4. Retail and E-commerce

Retailers and e-commerce platforms use data science to understand consumer preferences, optimize supply chains, and create personalized marketing strategies. Companies like Walmart and Alibaba employ data science engineers to drive sales and improve customer satisfaction.



CAREER PATH WITH SALARY PACKAGES

Entry-Level / Junior Data Science Engineer INR 6 LPA — INR 8 LPA per year

Mid-Level Data Science Engineer INR 10 LPA — INR 15 LPA per year

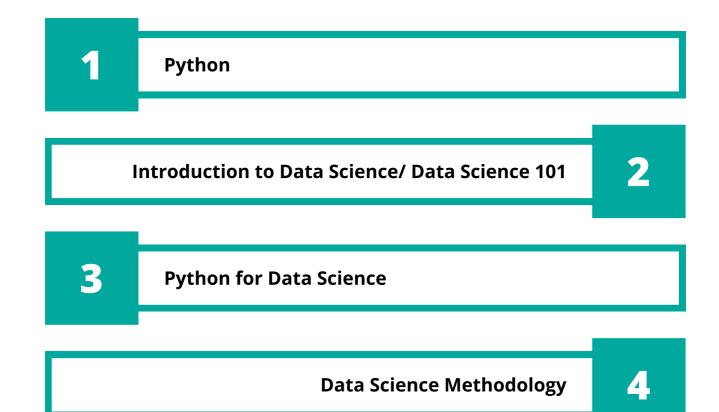
Senior Data Science Engineer INR 18 LPA — INR 22 LPA per year

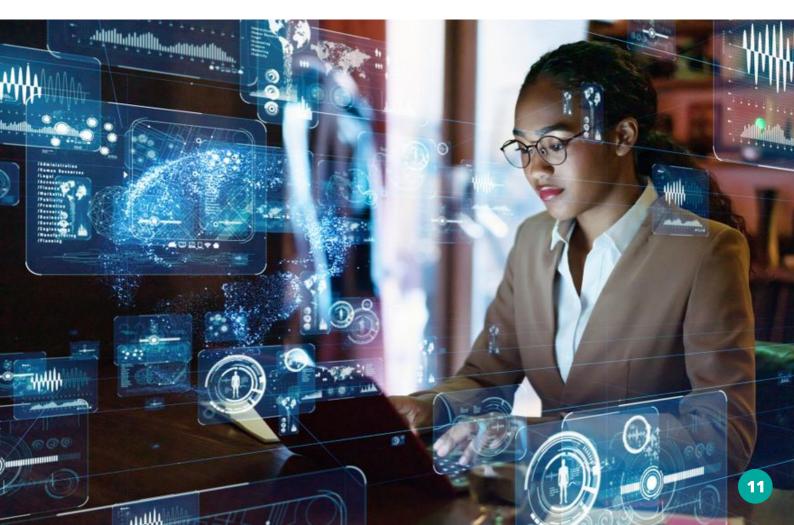
Lead Data Science Engineer INR 25 LPA — INR 30 LPA per year

Director of Data Science INR 35 LPA — INR 40 LPA per year

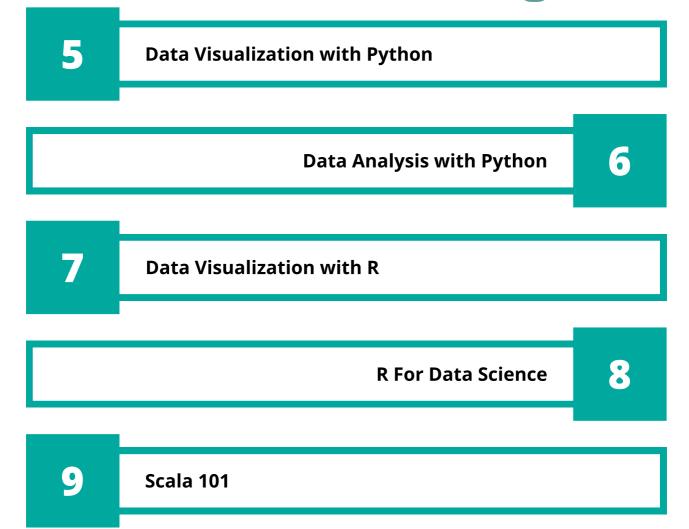


Learning Path Structure













Learning Path Details

Course 1: Python

Module 1: Introduction to PYTHON Module 2: Deep dive into PYTHON Module 3: Python Libraries Module 4: Error Handling Module 5: Other Topics Module 6: Regression (Use case study) Module 7: Other Regression related topics Module 8: Advance

Course 2 : Introduction to Data Science/ Data Science 101

Module 1: Defining Data Science Module 2: What do data science people do? Module 3: Data Science in Business Module 4: Use Cases for Data Science Module 5: Data Science People



Course 3 : Python for Data Science

Module 1 : Python Basics Module 2 : Python Data Structures Module 3 : Python Programming Fundamentals Module 4 : Working with Data in Python

Course 4 : Data Science Methodology

Module 1 : From Problem to Approach Module 2 : From Requirements to Collection Module 3 : From Understanding to Preparation Module 4 : From Modeling to Evaluation Module 5 : From Deployment to Feedback

Course 5 : Data Visualization with Python

Module 1 : Introduction to Visualization Tools Module 2 : Basic Visualization Tools Module 3 : Specialized Visualization Tools



Module 4 : Advanced Visualization Tools Module 5 : Creating Maps and Visualizing Geospatial Data

Course 6 : Data Analysis with Python

Module 1 : Importing Datasets Module 2 : Cleaning and Preparing the Data Module 3 : Summarizing the Data Frame Module 4 : Model Development Module 5 : Model Evaluation

Course 7 : Data Visualization with R

Module 1 : Basic Visualization Tools Module 2 : Basic Visualization Tools Continued Module 3 : Specialized Visualization Tools Module 4 : How to create Maps Module 5 : How to build interactive web pages



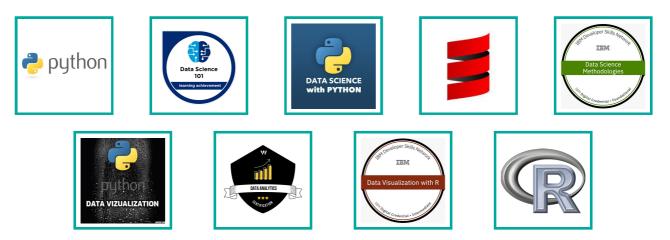
Course 8 : R for Data Science

Module 1 : R basics Module 2 : Data structures in R Module 3 : R programming fundamentals Module 4 : Working with data in R Module 5 : Strings and Dates in R

Course 9 : Scala 101

Module 1 : Introduction section Module 2 : Basic Object Oriented Programming section Module 3 : Case Objects and Classes section Module 4 : Collections section Module 5 : Idiomatic Scala section

Course Inclusions





Certification

Upon completion of this Self-paced E-Learning course and passing the online examination taken by IBM, you will receive an official IBM certificate to your registered Email ID.

You will receive 9 certifications from IBM for each of the courses in the learning path. These certificates will testify to your skills as an expert Data Science Engineer. These Certificates are recognized across the world.



So be a part of the IBM Certified online courses program today and begin your journey towards a brighter future!



Job Placement Opportunities

All these following Companies are waiting for you :

	Cognizant	CONSULTANCY SERVICES	IBM
Infosys®	wipro	Y	
Deloitte.	amazon	G	Optum
6	TCS	Microsoft	<i>BDEING</i>
abc	PayPal	F	🗯 Apple
	Jio	(intel)	Déell
	\mathbf{X}	cisco	AIRBUS
AMERICAN EXPRESS	TESLA	Reliance Industries Limited Growth is Life	



Talk to Admissions Counselor

Our admissions counselors are prepared to address your questions or concerns about this program.

Our team is available to:

- \triangleright Answer your questions about the admission process.
- Provide insight into the curriculum, program outcomes, and related information.
- \triangleright Give any other queries.
- ▷ Call Us : <u>+91-75728 45000</u>





