



Advanced Data Science Certification Program



A Comprehensive Program Featuring 7 Specializations



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INTRODUCTION



The Advanced Data Science Certification Program at Upskillment is a holistic training program designed to provide you with both the theoretical foundation and practical skills required to become a proficient data scientist. The course takes you through a step-by-step journey starting with basic concepts like Python programming, statistics, and data analysis, and gradually advances to more complex topics such as machine learning, artificial intelligence, and big data technologies.

Throughout the program, you will master the essential tools that are widely used in the industry, including Python, R, SQL, Tableau, and Apache Spark. You will learn how to work with PySpark for distributed data processing, Kafka for building data pipelines, and TensorFlow for deep learning. The curriculum emphasizes hands-on experience with real-world datasets, enabling you to build predictive models, data visualizations, and data-driven solutions for business challenges.

In addition to core skills, the program includes advanced topics like Natural Language Processing (NLP), image processing, and collaborative filtering, making it ideal for anyone looking to specialize in AI-driven analytics. By engaging in multiple real-world projects, you will develop a deep understanding of how to apply these tools and techniques to solve business problems, while gaining valuable experience in analyzing complex datasets and making data-driven decisions.

The Data Science Masters Program also offers a focus on data pipeline creation, real-time data processing, and scaling machine learning models, ensuring you are prepared to work in large-scale environments with cutting-edge tools and technologies. The program's comprehensive coverage of data science principles, technologies, and methodologies, combined with hands-on learning, positions you to succeed in high-demand data science roles such as Data Scientist, Machine Learning Engineer, AI Specialist, and more.

CURRICULUM

Data Science with Python Certification Course

This comprehensive course covers the entire data science pipeline using Python. From data wrangling and data analysis to building machine learning models with Scikit-Learn, you'll become proficient in applying data science concepts. With a focus on data visualization, you'll learn how to present complex data in a digestible format for business decision-making. By the end of the course, you'll be able to build predictive models and analyze data at a deep level.

Skills Covered: Data Wrangling, Data Analysis, Machine Learning Algorithms, Data Visualization, Regression Models

Tools Covered: Python, Pandas, Matplotlib, Scikit-Learn

Format: Instructor-led live classes (Weekdays & Weekend)

Duration: 3-4 weeks | 24 hours



PySpark Certification Training Course

This comprehensive course covers Apache Spark and PySpark for distributed data processing, focusing on real-time data streaming with Kafka and building data pipelines.

Learn to perform data transformation, data cleaning, and machine learning using MLlib on large datasets.

Master essential tools like Spark SQL, RDD, HDFS, Hive, and PySpark for big data analytics and real-time processing.

With hands-on projects and real-world case studies, this course prepares you for roles like Data Engineer or Big Data Specialist.

Instructor-led live classes (Weekdays & Weekend)

Duration: 3-4 weeks | 24 hours



Artificial Intelligence Certification Course

This comprehensive AI course by Upskillment equips you with the skills to develop AI solutions using techniques like machine learning, deep learning, and natural language processing (NLP). You will master neural networks, computer vision, reinforcement learning, and AI model deployment.

Explore TensorFlow, Keras, PyTorch, and other essential tools, learning to build and train AI models for diverse business applications.

Practical, hands-on projects will deepen your expertise, preparing you for high-demand roles like AI Engineer, Data Scientist, and NLP Engineer.

Instructor-led live classes (Weekdays & Weekend)

Duration: 3-4 weeks | 24 hours

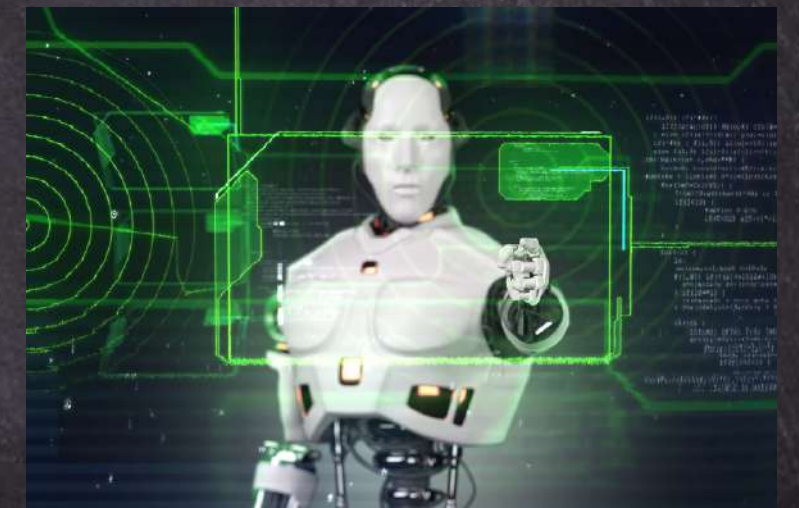


Tableau Certification Training Course



Upskillment's Tableau Certification Training provides in-depth knowledge of creating advanced, interactive data visualizations and dashboards, aimed at professionals who want to use Tableau for data-driven decision-making. Learn to connect to various data sources, clean and manipulate data using Tableau Prep Builder, and build powerful, insightful visualizations using Tableau Desktop.

This course focuses on building skills to analyze complex data, turning it into visually appealing reports and dashboards, and making meaningful insights accessible to stakeholders. Master advanced Tableau functionalities such as LOD expressions, Tableau Server, Tableau Online, and report automation, while learning best practices in visual storytelling and business intelligence. By the end of the course, you will be well-equipped to use Tableau to help businesses drive performance and make informed decisions.

Skills Covered: Data Visualization, Dashboard Creation, Reporting, Data Analysis, Business Intelligence

Tools Covered: Tableau Desktop, Tableau Prep Builder, Tableau Online

Instructor-led live classes (Weekdays & Weekend)

Duration: 4-5 weeks | 24 hours

SQL Essentials Training

This beginner-friendly course focuses on mastering SQL to manage and query relational databases. You'll learn to write SQL queries, use joins, filter and manipulate data, and design databases to support business needs. Whether you're starting a career in data management or want to enhance your querying skills, this course is an essential foundation for working with databases.

Self Paced

Duration: 2-3 weeks | 10 hours

Skills Covered: SQL Querying, Data Filtering, Joins, Data Manipulation, Database Design

Tools Covered: MySQL, SQL Server, PostgreSQL

R Programming Certification Training

Explore the power of R programming for data science. This course teaches data manipulation, statistical analysis, and data visualization using RStudio. You'll work with powerful R libraries such as ggplot2 and dplyr to manipulate and visualize data. This course is ideal for those seeking to use R in fields like data analysis, business intelligence, and statistical research.

Duration: 2-3 weeks | 10 hours

Skills Covered: Data Manipulation, Statistical Analysis, Data Visualization, Model Building, Reporting

Tools Covered: R, RStudio, ggplot2, dplyr

R Statistics for Data Science Course



In this course, you will explore advanced statistical methods in R. Learn to perform regression analysis, hypothesis testing, and ANOVA to gain valuable insights from data. You'll develop the skills to model data, test assumptions, and interpret results for decision-making in a business or research context.

Self Paced

Duration: 2-3 weeks | 16 hours

Skills Covered: Regression Analysis, Hypothesis Testing, ANOVA, Statistical Modeling, Data Interpretation

Tools Covered: R, RStudio

Data Science with R Programming Certification Training Course

This course integrates R programming with essential data science techniques such as machine learning, time-series analysis, and text mining. Learn how to build predictive models and analyze trends in data. Using caret for modeling and ggplot2 for visualization

Self Paced

Duration: 2-3 weeks | 16 hours

Skills Covered: Machine Learning, Time-Series Analysis, Text Mining, Predictive Analytics, Data Visualization

Tools Covered: R, RStudio, caret, ggplot2

Advanced Data Science Certification Program Outlook

Flexible Learning Options:

Choose what fits your schedule! Attend classes on weekdays or weekends, and select from morning or evening sessions to accommodate your personal commitments.

Class Rescheduling Flexibility: Never miss a session! If you're unable to attend, you can easily switch to another batch that fits your availability.

Dedicated Learning Manager:

Get personalized support from a Learning Manager who is fully committed to answering all your questions and guiding you throughout the course.

Job Assistance: Receive dedicated job assistance, including resume building, interview preparation, and job placement support to help you land your dream role in Advanced Data Science Certification Program.

Hands-On Projects and Real-World Simulations:

Gain practical experience with industry-relevant projects and simulations, ensuring you can apply your knowledge to real-world scenarios.

Industry-Recognized Certification:

Earn a certification that is recognized by top organizations, validating your expertise and helping you stand out in the competitive job market.

Data Science Career Outlook and Industry Growth

- By 2026, 11.5 million career opportunities are expected for experienced data scientists globally within the IT industry, with a 28% annual growth in job demand for data scientists, data developers, and data engineers. The average salary for a data scientist is \$158,000 annually, making it one of the most rewarding career paths.
- Top industries hiring data science professionals include Information Technology, Finance, Healthcare, Marketing & Advertising, E-commerce, Retail, Manufacturing, Insurance, Energy & Utilities, and BSFI.
- Common target roles for data science professionals are Data Scientist, Machine Learning Engineer, Data Analyst, Data Engineer, Big Data Developer, Big Data Analyst, Deep Learning Engineer, and Business Intelligence (BI) Developer.

LET'S CONNECT

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