IBM Skills Academy

Data Science Practitioners Course

Engage with real-world challenges, where the scientific method meets real business, and data-fueled systems can use machine learning models to find insights.

Data science is the practice of extracting knowledge from massive amounts of data, using methods such as statistics, machine learning, data mining, and predictive analytics.

This discipline is revolutionizing the way organizations solve problems and gain competitive advantage.

About this course

Explore the topics, technology and skills required to take on different roles in a data science and help solve end-to-end real-world scenarios across different industries via data science.

Data Science practitioners

- Use advanced data science methodologies and tools.
- Leverage statistical sciences, machine learning technologies and industry-specific datasets to help implement unique data models that can solve challenging problems across all industries.

Audience

Individuals with an active interest in applying for entry level jobs to work in data science related fields.

Prerequisite skills for this course:

- Familiarity in Statistics
- Basic IT literacy skills

Uncover patterns and build predictions using data, algorithms, machine learning and AI techniques.

Journey: 75 hours

Expand knowledge and understanding of the topic through lectures, training, examples, videos, and quizzes.

Implement concepts learned through simulations, hands-on labs and games.

Understand the real-world impact of topics covered with a deep-dive into industry case studies.
Uncover patterns and build predictions using data, algorithms, machine learning and AI techniques.

ibm.com/analytics/data-science

Objectives

– Understand the evolution and relevance of data science in the world today.
– Explore end-to-end data science industry use cases by applying the data analytics lifecycle.
– Understand and implement scientific methodologies for science projects and the key role the data science team plays.
– Acquire technical expertise using popular open source data science frameworks. This includes Jupyter Notebooks and Python.
– Gain a competitive edge using low-code cloud-based platform for data science – IBM Watson Studio.
– Apply data engineering and data modeling practices using machine learning.
– Explore data science industry case studies: transportation, automotive, human resources, aerospace, banking, and healthcare.
– Experience teamwork and agile industry practices using design thinking.
– Engage in role-playing challenge-based scenarios to propose real-world solutions.

This course challenges you to take on the different roles involved in a data science team, solving end-to-end real-world scenarios across different industries.

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IBM Corporation
New Orchard Road
Armonk, NY 10504
Produced in the United States of America,
January 2021

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