Microsoft Professional Program in Data Science

Gain the skills you need to get the data science job you want.

[See All Program Courses] [Get Started in the First Course]
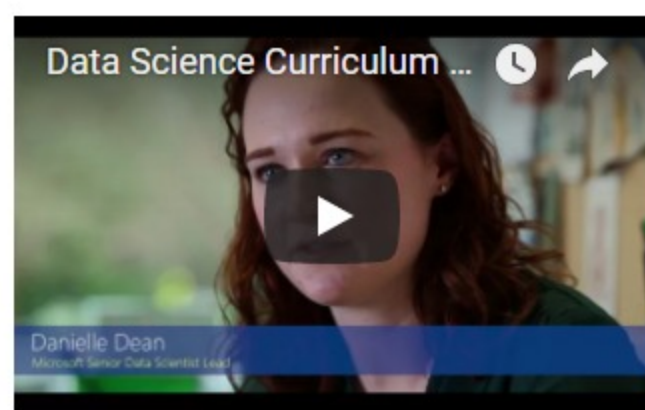
Microsoft

Accelerate your career in one of the hottest fields – data science. Learn data science fundamentals, key data science tools, and widely-used programming languages from industry and academic experts in this unique program created by Microsoft.

Built in collaboration with leading universities and employers, the Microsoft Professional Program Certificate in Data Science will develop the analytical and programming skills you need to take advantage of the 1.5 million career opportunities available now in data science.

Data Science Curriculum ...
Danielle Dean

Program Details

Courses	9 courses + Final Project
Effort	16 - 32 hours per course
Price	$99 per course / $990 for the entire program

You'll Learn To

- Use Microsoft Excel to explore data
- Use Transact-SQL to query a relational database
- Create data models and visualize data using Excel or Power BI
- Apply statistical methods to data
- Use R or Python to explore and transform data
- Follow a data science methodology
- Create and validate machine learning models with Azure Machine Learning
- Write R or Python code to build machine learning models
- Apply data science techniques to common scenarios
- Implement a machine learning solution for a given data problem

To be eligible to earn a certificate for completing the Microsoft Professional Program for Data Science, please go to https://academy.microsoft.com/en-us/professional-program/ to create a Microsoft Academy account. After signing up, you'll be able to track your progress on a personalized dashboard that updates every time you earn a Verified Certificate in a course from the Data Science track.

How It Works

Made up of three units and a final project, the Microsoft Professional Program Certificate in Data Science provides a comprehensive program of study in data science. Learners can choose from different courses within each unit of study. For example, in Unit 1 - Fundamentals you can choose between Analyzing and Visualizing Data with Excel or Analyzing and Visualizing Data with Power BI to satisfy the requirement.

[object Object]

Unit 1 - Fundamentals

Learn data science basics. Explore topics like data queries, data analysis, data visualization and how statistics informs data science practices. **Please choose from Course 3a or Course 3b to complete the unit.**

Course 1: Microsoft Professional Program : Data Science Orientation
Course 2: Querying Data with Transact-SQL
Course 3a: Analyzing and Visualizing Data with Excel   Course 3b: Analyzing and Visualizing Data with Power BI
Course 4: Essential Statistics for Data Analysis using Excel

[Enroll In Data Science Orientation Today]

Unit 2 - Core Data Science

Learn essential programming languages to manipulate date and discover the fundamentals of machine learning. **Please choose from Course 5a or Course 5b to complete the unit.**

Course 5a: Introduction to R for Data Science   Course 5b: Introduction to Python for Data Science
Course 6: Data Science Essentials
Course 7: Principles of Machine Learning

Unit 3 - Applied Data Science

Dive deeper into data science programming languages and start leveraging data to develop intelligent solutions. **Choose from Course 8a or 8b. Please continue with the programming language you selected in Unit 2. Select from one of Course 9a, Course 9b, Course 9c or 9d to complete the unit.**

Course 8a: Programming with R for Data Science   Course 8b: Programming with Python for Data Science
Course 9a: Applied Machine Learning   Course 9b: Developing Intelligent Apps and Bots
Course 9c: Implementing Predictive Solutions with Spark in Azure HDInsight
Course 9d: Analyzing Big Data with Microsoft R Server

Unit 4 - Capstone Project

Showcase your data science knowledge and skills, and solve a real-world data science problem in Microsoft Professional Capstone : Data Science. The project takes the form of a challenge in which you will explore a dataset and develop a machine learning solution that is tested and scored to determine your grade.

Data Science Curriculum Courses

Microsoft
Microsoft Professional Orientation : Data Science
Current
Self-Paced

Microsoft
Querying with Transact-SQL
Current
Self-Paced

Microsoft
Analyzing and Visualizing Data with Excel
Current
Self-Paced

Microsoft
Analyzing and Visualizing Data with Power BI
Current
Self-Paced

Microsoft
Essential Statistics for Data Analysis using Excel
Current
Self-Paced

Microsoft
Introduction to R for Data Science
Current
Self-Paced

Microsoft
Introduction to Python for Data Science
Current
Self-Paced

Microsoft
Data Science Essentials
Current
Self-Paced

Microsoft
Principles of Machine Learning
Current
Self-Paced

Microsoft
Programming with R for Data Science
Current
Self-Paced

Microsoft
Programming with Python for Data Science
Current
Self-Paced

Microsoft
Applied Machine Learning
Current
Self-Paced

Microsoft
Developing Intelligent Apps and Bots
Current
Self-Paced

Microsoft
Implementing Predictive Analytics with Spark in.
Current
Self-Paced

Microsoft
Analyzing Big Data with Microsoft R Server
Current
Self-Paced

Microsoft
Microsoft Professional Capstone : Data Science
Current
Self-Paced

[Start Program]

edX

About | edX for Business | Blog | News | Help Center | Contact | Careers | Donate

Terms of Service & Honor Code | Privacy Policy | Accessibility Policy | Sitemap | Media Kit

English ▾

[Download on the App Store] [ANDROID APP ON Google play]

© 2012–2017 edX Inc. All rights reserved except where noted. EdX, Open edX and the edX and Open edX logos are registered trademarks or trademarks of edX Inc. | 粤ICP备17044299号-2