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Python 3: Data Engineer with Python

Advanced Python - Please complete Introduction to Python prior to this track

PUBLISHED Estimated time to complete – 67 hours

Actions ▾

1. Introduction to Data Engineering

Learn about the world of data engineering with an overview of all its relevant topics and tools!

Vincent Vankrunkelsven



COURSE

2. Streamlined Data Ingestion with pandas

Learn to acquire data from common file formats and systems such as CSV files, spreadsheets, JSON, SQL databases, and APIs.

Amany Mahfouz



COURSE

3. Software Engineering for Data Scientists in Python

Learn all about modularity, documentation, & automated testing to help you solve Data Science problems quicker and more reliably.

Adam Spannbauer



COURSE

4. Writing Efficient Python Code



Logan Thomas



COURSE

5. Introduction to Shell

The Unix command line helps users combine existing programs in new ways, automate repetitive tasks, and run programs on clusters and clouds.

Greg Wilson



COURSE

6. Data Processing in Shell

Learn powerful command-line skills to download, process, and transform data, including machine learning pipeline.

Susan Sun



COURSE

7. Introduction to AWS Boto in Python

Learn about AWS Boto and harnessing cloud technology to optimize your data workflow.

Maksim Pecherskiy



COURSE

8. Introduction to Relational Databases in SQL

Learn how to create one of the most efficient ways of storing data - relational databases!

Timo Grossenbacher



COURSE

9. Database Design

Learn to design databases in SQL.



10. Introduction to Scala

Begin your journey with Scala, a popular language for scalable applications and data engineering infrastructure.

David Venturi



COURSE

11. Introduction to PySpark

Learn to implement distributed data management and machine learning in Spark using the PySpark package.

Nick Solomon



COURSE

12. Big Data Fundamentals with PySpark

Learn the fundamentals of working with big data with PySpark.

Upendra Kumar Devisetty

COURSE

13. Introduction to Spark SQL in Python

Learn how to manipulate data and create machine learning feature sets in Spark using SQL in Python.

Mark Plutowski

COURSE

14. Transactions and Error Handling in SQL Server

Learn to write scripts that will catch and handle errors and control for multiple operations happening at once.



15. Improving Query Performance in SQL Server

In this course, students will learn to write queries that are both efficient and easy to read and understand.

Dean Smith

COURSE

16. Building and Optimizing Triggers in SQL Server

Learn how to design and implement triggers in SQL Server using real-world examples.

Florin Angelescu

COURSE

17. Introduction to MongoDB in Python

Learn to manipulate and analyze flexibly structured data with MongoDB.

Donny Winston

COURSE