



13 Courses

Introduction to Data Engineering

Python for Data Science, AI & Development

Python Project for Data Engineering

Introduction to Relational Databases (RDBMS)

Databases and SQL for Data Science with Python

Hands-on Introduction to Linux Commands and Shell Scripting

Relational Database Administration (DBA)

ETL and Data Pipelines with Shell, Airflow and Kafka

Data Warehouse Fundamentals

Introduction to NoSQL Databases

Introduction to Big Data with Spark and Hadoop

Machine Learning with Apache Spark

Data Engineering Capstone Project



Dec 30, 2023

Trong Pham

has successfully completed the online Professional Certificate

IBM Data Engineering

In this Professional Certificate, learners developed essential knowledge and skills to perform the many tasks in an entry-level data engineering role. By completing over a dozen courses in the program, the earner of this Professional Certificate has demonstrated a firm grasp on and practical experience with fundamentals of Relational Databases, Database Architecture, Design, & Administration, Data Warehousing, Querying databases with SQL and BI Tools, ETL with Python Programming language and Shell Scripts, NoSQL, and Big Data processing using Apache Spark. Learners have applied all these skills to complete a Capstone Project involving the design, deployment and management of a complete data engineering platform inspired by a real-world data analytics requirements scenario.

Antonio Cangiano

Antonio Cangiano
Director, IBM Skills
Network

This certificate attests to the learner's completion of an online program delivered via Coursera. It does not constitute formal enrollment at any university or entity and does not itself grant academic credit, grades, or a degree. Institutions or organizations may, at their discretion, recognize this learning toward their own programs or credentials.

Verify this certificate at:

<https://coursera.org/verify/professional-cert/69E9GTYPXB>