# Syllabus

## Module 1: Spark for Data Engineering

- Module Introduction and Learning Objectives
- Spark Structured Streaming
- GraphFrames on Apache Spark
- ETL Workloads
- Hands-on Lab: Jupyter Notebook for Machine Learning with Apache Spark
- Hands-on Lab: Machine Learning with Apache Spark
- Summary & Highlights
- Practice Quiz: Spark for Data Engineering
- Graded Quiz: Spark for Data Engineering

## Module 2: Spark for Machine Learning

- Module Introduction and Learning Objectives
- SparkML Fundamentals
- Classification and Regression using Apache Spark
- SparkML Clustering
- Hands-on Lab: Jupyter Notebook for Introduction to Spark ML
- Hands-on Lab: Introduction to Spark ML
- Summary & Highlights
- Practice Quiz: SparkML
- Graded Quiz: SparkML

## Module 3: Final Exam and Final Assignment

- Final Exam Instructions
- Final Exam
- Final Project
- Project Overview
- Hands-on Lab: ETL with Machine Learning
- Peer Review: Submit your Work and Review your Peers

## Course Wrap Up

- Congrats & Next Steps
- Team & Acknowledgements