Program Structure and Schedule

This program includes 4 courses and 5 projects to be completed in 5 months. The schedule is below. The project deadlines that appear in the classroom are suggestions. There are no consequences for not submitting projects on time. However, we highly recommend you stay on track to ensure you give yourself enough time to complete all the projects.

IMPORTANT: The only requirement for graduation is that you submit and pass all projects. If you feel like you already know some of the material, feel free to skip right to the project.

Course 1: Data Modelling with Postgres and Cassandra

Week #	Lesson
1	Introduction to Data Modeling
2	Relational Data Modeling with Postgres
2	**Project: Data Modeling with Postgres**
3	Non-Relational Modeling with Cassandra
3	**Project: Data Modeling with Cassandra**

Course 2: Cloud Data Warehouses

Week #	Lesson
4	Introduction to the Data Warehouses
5	Introduction to the Cloud and AWS
6	Implementing Data Warehouses on AWS
7	**Project: Create a Cloud Data Warehouse**

Course 3: Data Lakes with S3 and Spark

Week #	Lesson
8	The Power of Spark

Week #	Lesson
9	Data Wrangling with Spark
10	Debugging and Optimizing
11	Introduction to Data Lakes
12	**Project: Create a Data Lake**

Course 4: Data Pipelines with Airflow

Week #	Lesson
13	Data Pipelines
14	Data Quality
15	Production Data Pipelines
16	**Project: Create Data Pipelines**

Capstone Project

Week #	Lesson
17	**Project: Capstone**