**Requirements**

**Data Model Implementation (25 points)**

* A Python script initializes, trains, and evaluates a model (10 points)
* The data is cleaned, normalized, and standardized prior to modeling (5 points)
* The model utilizes data retrieved from SQL or Spark (5 points)
* The model demonstrates meaningful predictive power at least 75% classification accuracy or 0.80 R-squared. (5 points)

**Data Model Optimization (25 points)**

* The model optimization and evaluation process showing iterative changes made to the model and the resulting changes in model performance is documented in either a CSV/Excel table or in the Python script itself (15 points)
* Overall model performance is printed or displayed at the end of the script (10 points)

**GitHub Documentation (25 points)**

* GitHub repository is free of unnecessary files and folders and has an appropriate .gitignore in use (10 points)
* The README is customized as a polished presentation of the content of the project (15 points)

**Group Presentation (25 points)**

* All group members speak during the presentation. (5 points)
* Content, transitions, and conclusions flow smoothly within any time restrictions. (5 points)
* The content is relevant to the project. (10 points)
* The presentation maintains audience interest. (5 points)

This project will be evaluated against the requirements and assigned a grade according to the following table:

| **Grade** | **Points** |
| --- | --- |
| A (+/-) | 90+ |
| B (+/-) | 80–89 |
| C (+/-) | 70–79 |
| D (+/-) | 60–69 |
| F (+/-) | < 60 |

**Submission**

To submit your project, click Submit, and then provide the URL of your GitHub repository for grading.

**note**

Projects are requirements for graduation. While you are allowed to miss up to two Challenge assignments and still earn your certificate, projects cannot be missed.