

Samuel Winter | Project Name: TeslaTrendsetter | [Github Repo](#)

Job Description:

- a. The Data Engineering intern role at Tesla aligns with my keen interests in identifying problems and creating automated solutions in an industry that I have interest in.
- b. The required skills match my current expertise and knowledge in data manipulation and analysis. With the opportunity to reinforce/learn more technical skills.
- c. I have a deep interest in the fields of technology and automotives.

Problem:

- a. The problem is sourcing/parsing the data so it can be used to make data driven decisions.
- b. The problem requires a platform for data to be analyzed, which requires an ETL process to provide insight in SQL.
- c. After the ETL process, querying and visualizing the data when it's in csv format should be rudimentary.

Data Sources:

- a. Tesla's API, reflecting real-time vehicle performance & web scraping consumer feedback from automotive forums.
- b. Both data sources will have to be appropriately parsed (transformed into csv) to be used for data driven decisions (SQL queries & data vis).

Solution:

- a. I plan to implement an SQL-based solution that integrates telematics data with customer feedback to provide a view of vehicle performance with customer experiences.
- b. The SQL queries will focus on showcasing correlations between vehicle data and customer feedback. With visualizations correlating fleet analytics to consumer reactions.