

**\*\*Non-exhaustive list – To be used to give a general sense of competencies.**

### **Data Analytics**

- Stood up Power BI dashboards to visualize all results from testing, investigate and create connections between tracking systems to visualize burndown of issues
- Migrated dashboards from local power BI server to Cloud BI to utilize many-to-many relationship functionality not previously available.

### **Data Engineering**

- Architected and implemented data pipeline to address bottleneck in data visualization. Centralized storage of data onto NAS and hardened push system.
- Updated windows service to address issues when importing new versions of push script.
- Expanded pipeline to handle new types of tests, auto organizing into storage, as well as served as a liaison for best practices when creating new tests and data storage requirements

### **Data Science**

- Explored process analysis through the full life cycle of development to identify gaps.
- Implemented rudimentary correlation analysis of issue tracking system, “obsolete” issues, and their propagation through to customer warranty claims.
- Utilized MiniLM-L6 to build association between vehicle location category in issue tracking and warranty labor code descriptions to show 1:1 causation of no-fix issues.
- Improved on single pass results of syntactic association by developing iterative best case algorithm to go from 40% to 60% similarity scores above 51.
- Building traditional ML model to predict program performance based on its state during different phases of development to red light/green light based on previous launches.
- Investigated internally trained LLMs to provide feedback on usability and accuracy.