Smart Battery Manager

Getting Started

This demo demonstrates a Smart Battery Manager that provides EV fleet condition monitoring and insights into vehicle performance through meaningful digital-twin visualizations built upon the AWS ML and IoT stacks. The underlying ML pipeline draws on existing battery data collected from connected in-market EVs and generates battery health prediction models developed on a highly scalable event-driven microservices infrastructure.

Once the demo is launched, you will need the below information and documents

- *Link to access the application* – Provided in the email sent post demo launch.
- *Temporary credentials to login into the demo* – Provided in the email sent post demo launch.
- *Raw Dataset* – Provided as sample dataset in the Resource section of the demo in DemoFactory.
- *Processing Plugin* - Provided as sample processing plugin in the Resource section of the demo in DemoFactory.

Create Pipeline

By default, you are logged into the application as a *Developer*. The *Developer* persona has access to the dashboard, and can create pipelines. You can also switch your profile to *Fleet Operator* (with access only to Dashboard) by clicking on the profile icon in the navbar.

To create a pipeline,

- click on the *Add Pipeline* button.

- You will be navigated to a form
    - Upload the sample dataset (downloaded from Resource section of the demo in DemoFactory) and click *Continue.*
    - Upload the sample processing plugin (downloaded from Resource section of the demo in DemoFactory) and click *Continue.*
    - Review the information and click on Launch
- You will be navigated to the Pipeline Tracker where you can track the status of each step in the pipeline.
1. The pipeline may take up to 4 hours to complete.
2. Once the pipeline is successfully completed you will be redirected to the dashboard.

Dashboard

To access dashboard, you can follow steps from one of the options listed below

Option 1

- Click on the user profile icon in the navbar
- Selected Connected Vehicles
- You will be navigated to the Dashboard
- Click on any connected vehicle in the map
- The Dashboard will be loaded for the battery

Option 2

- Click on the user profile icon in the navbar
- Selected *Pipelines*
- Click on any of the completed pipeline
- You will be navigated to the Dashboard
- Click on any connected vehicle in the map
- The Dashboard will be loaded for the battery

Additional Information

- Once a pipeline is successfully completed, you will be redirected to the dashboard page upon login.
- If you switch profile to Fleet Operator while you are in any screen other than dashboard you will be redirected to dashboard.