MICHIGAN STATE
UNIVERSITY

Beta Presentation
United Airlines Training Forecast Model

The Capstone Experience

Team United Airlines Training

Ian Barber
Jerry Chang
Zachary Matson
Ethan Peterson
Rohit Vadlamudi

Department of Computer Science and Engineering
Michigan State University

Spring 2022

From Students…
  …to Professionals

Project Overview

- The project analyzes the risk of becoming unde rstaffed on airworthy technicians at various Uni ted Airline hubs.

- Each station has detailed analysis, providing inf ormation
at a deep granularity, allowing specifications by day, shift, technician type and plane type.

- There is also a graphical forecast page to look over time in a more visual way.

System Architecture
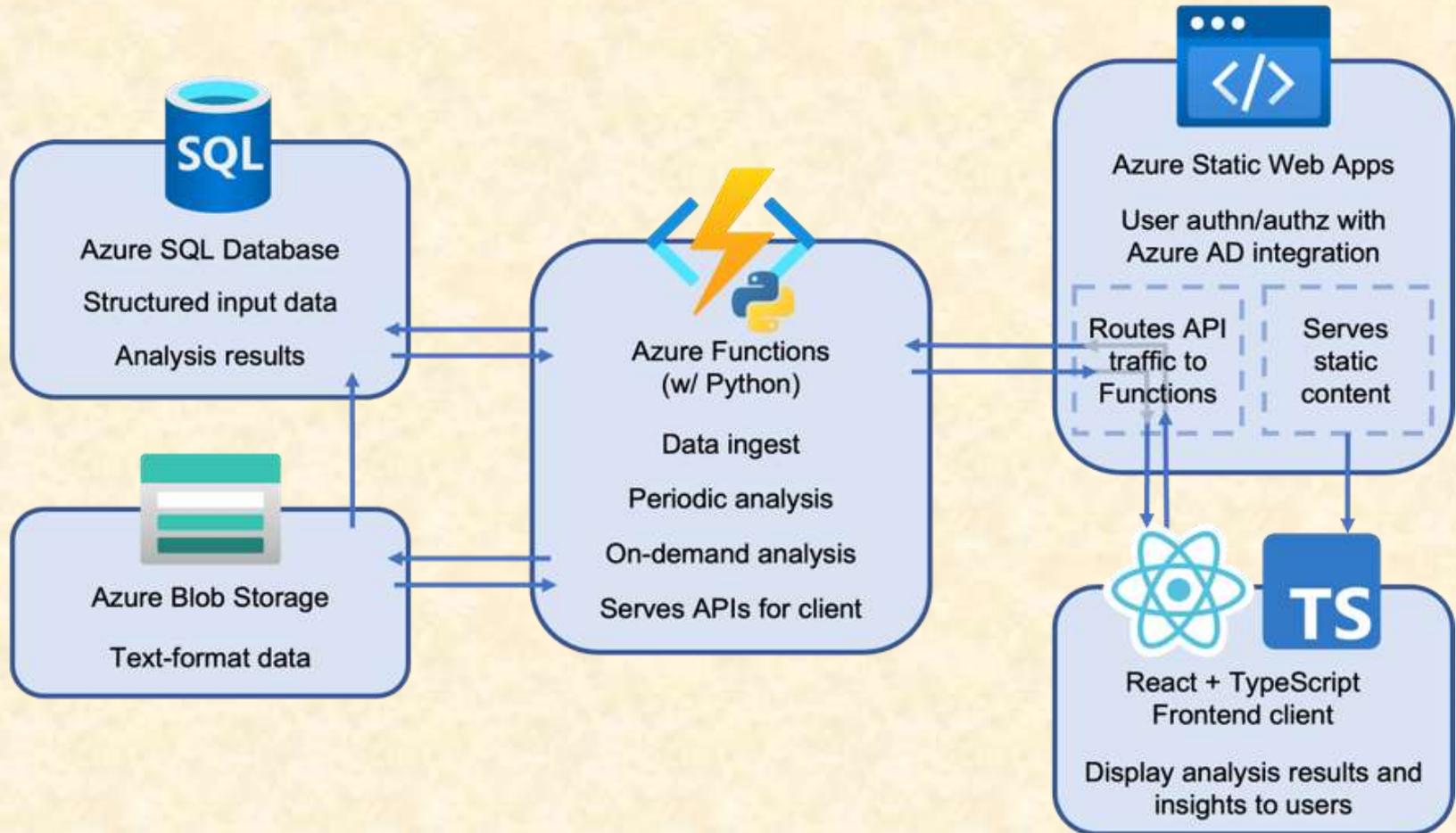
Dashboard Page
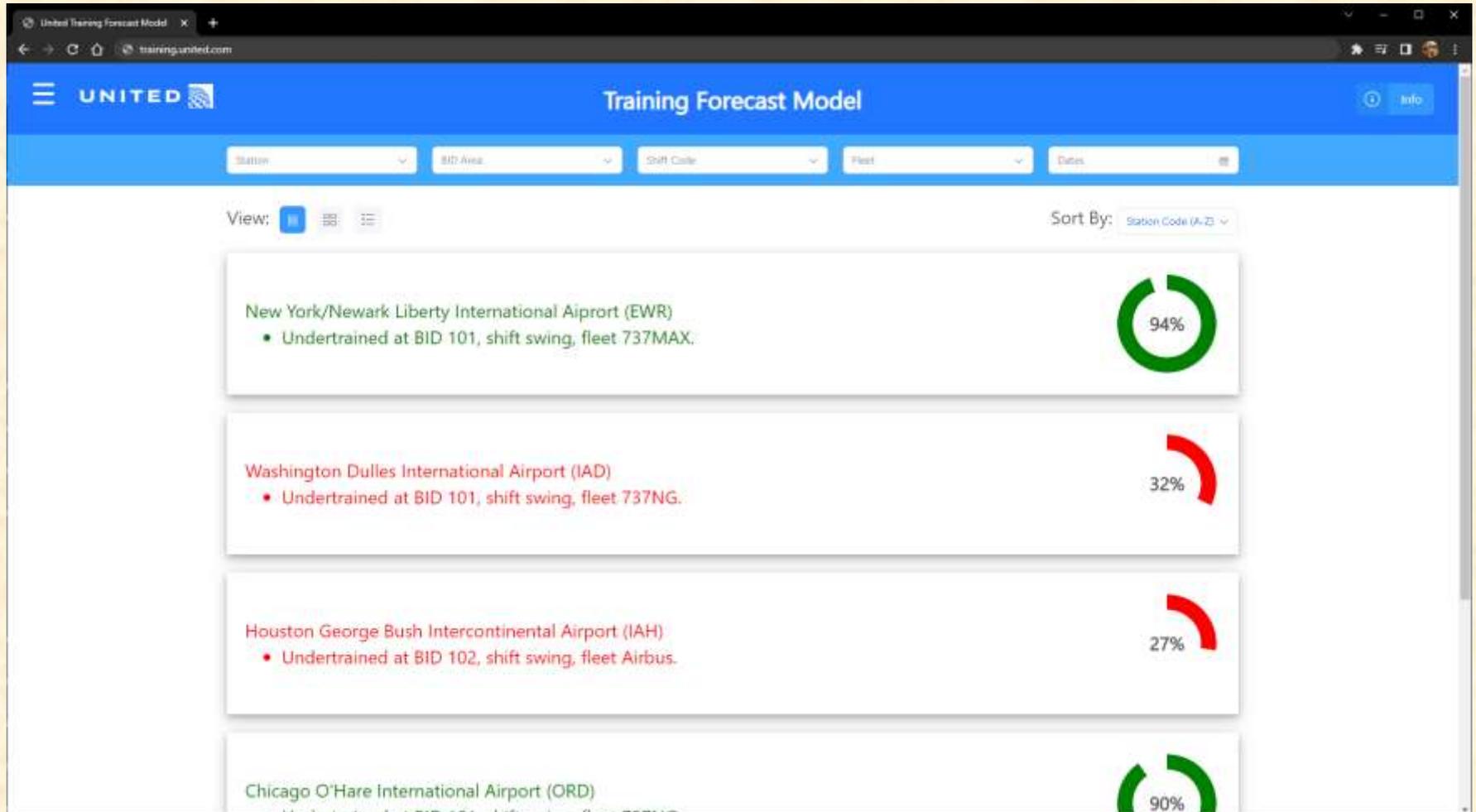
Stations Page
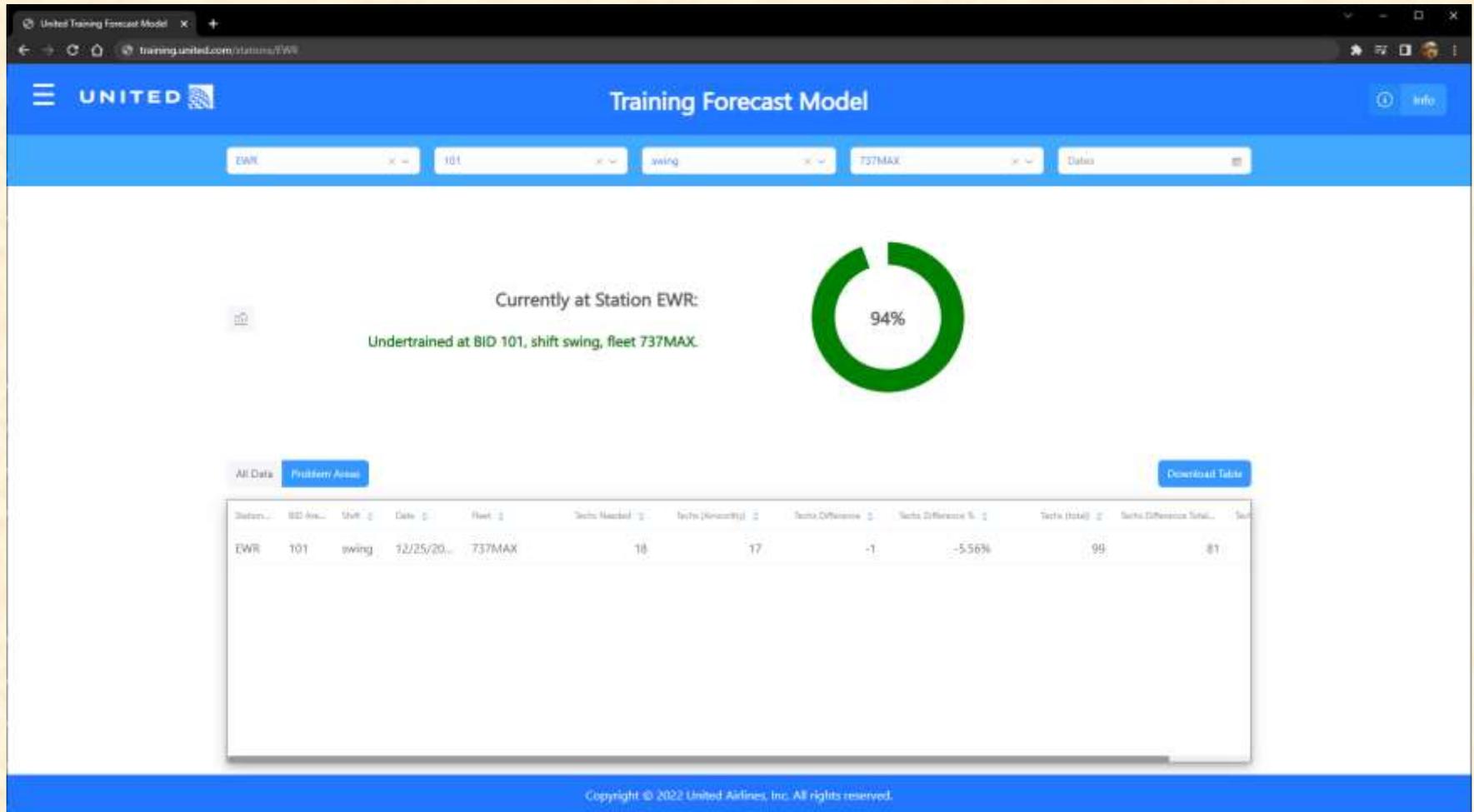
Stations Page
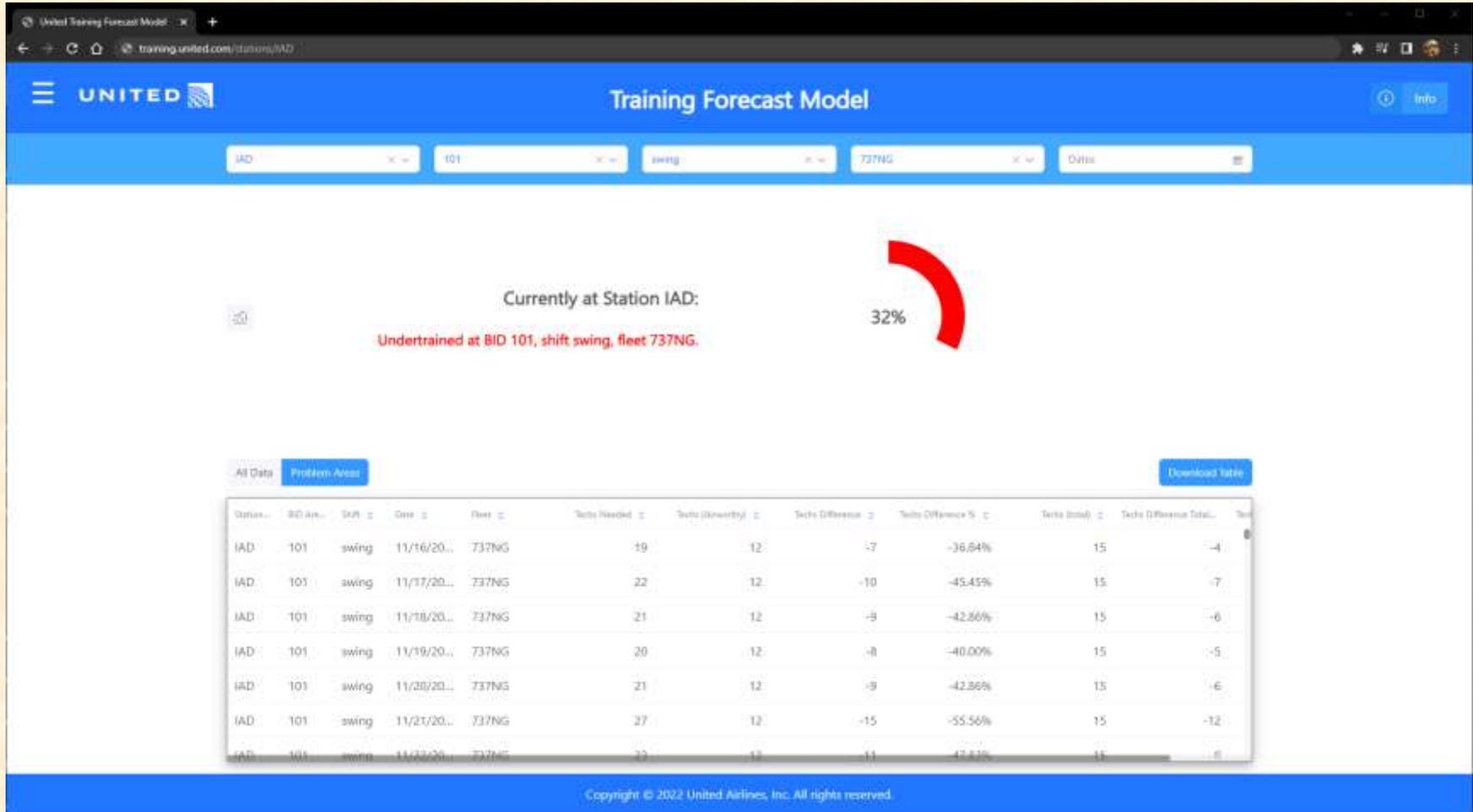
Predictions Page
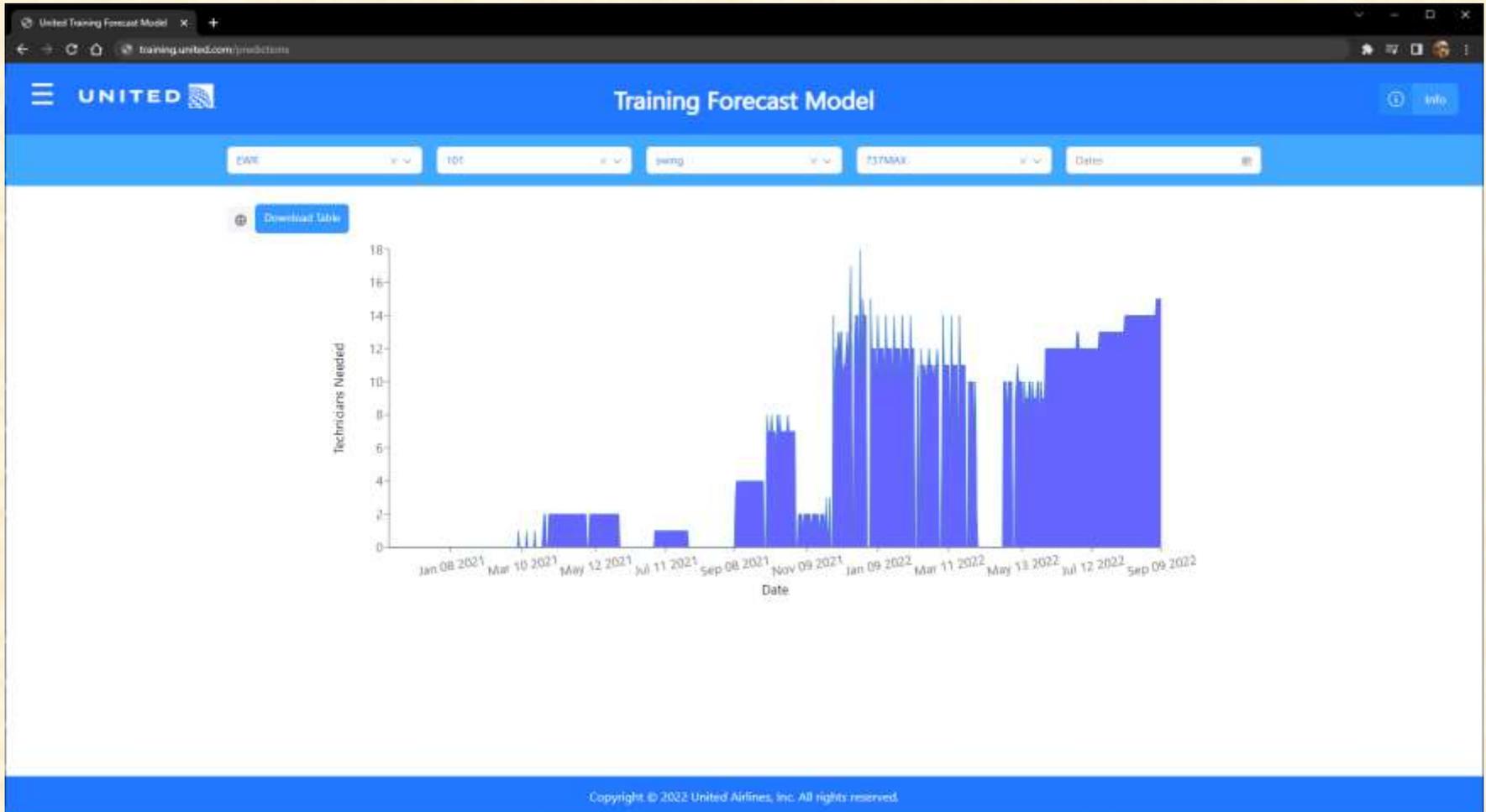
What's left to do?

- Features
  - All major features complete
- Stretch Goals
  - More flexible file upload system
  - PDF station overview document
  - Distinguish prediction data from actual data
- Other Tasks
  - Improve model performance
  - UI/UX cleanup
  - Preparing to hand off project to sponsor
  - Ensure code is properly documented

Questions?