MICHIGAN STATE UNIVERSITY

Alpha Presentation

Carrier Performance Index Engine

The Capstone Experience

Team RPM

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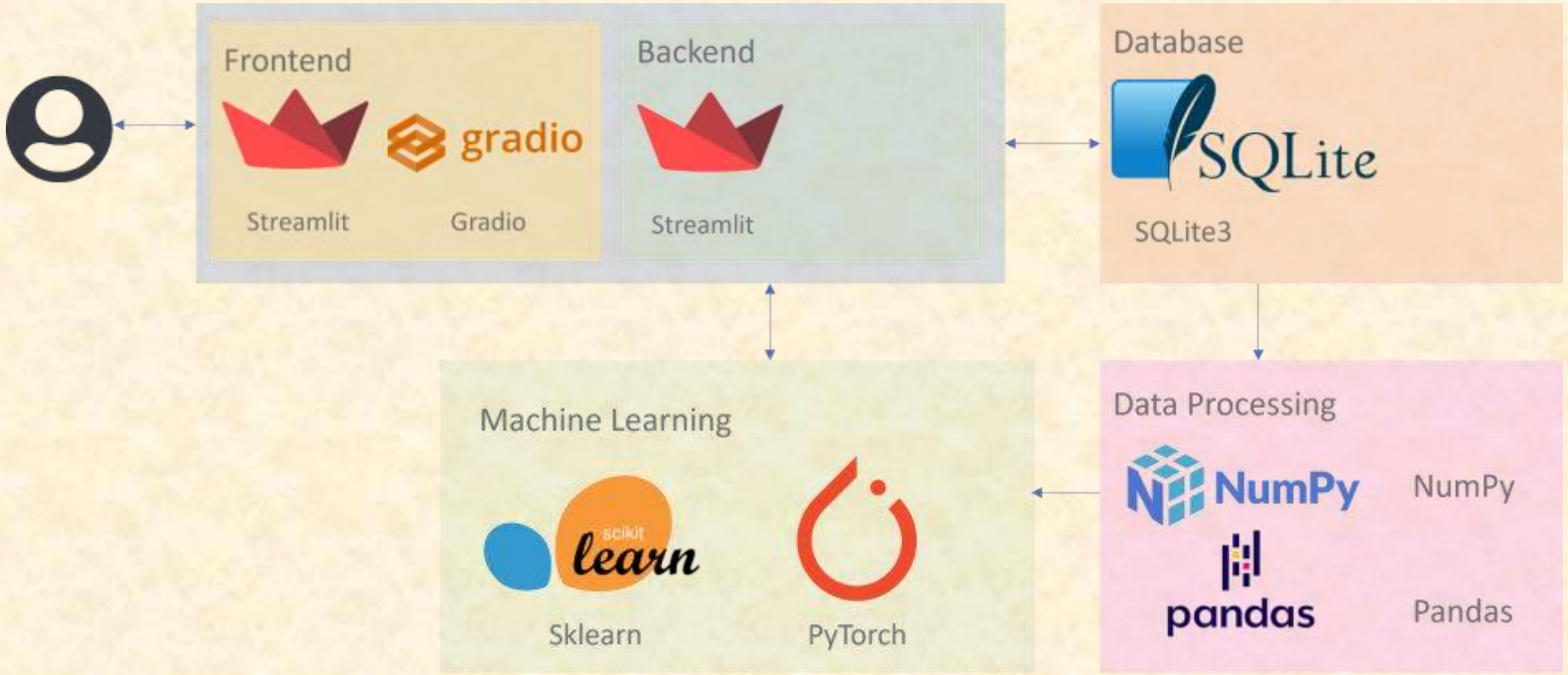


From Students…
…to Professionals

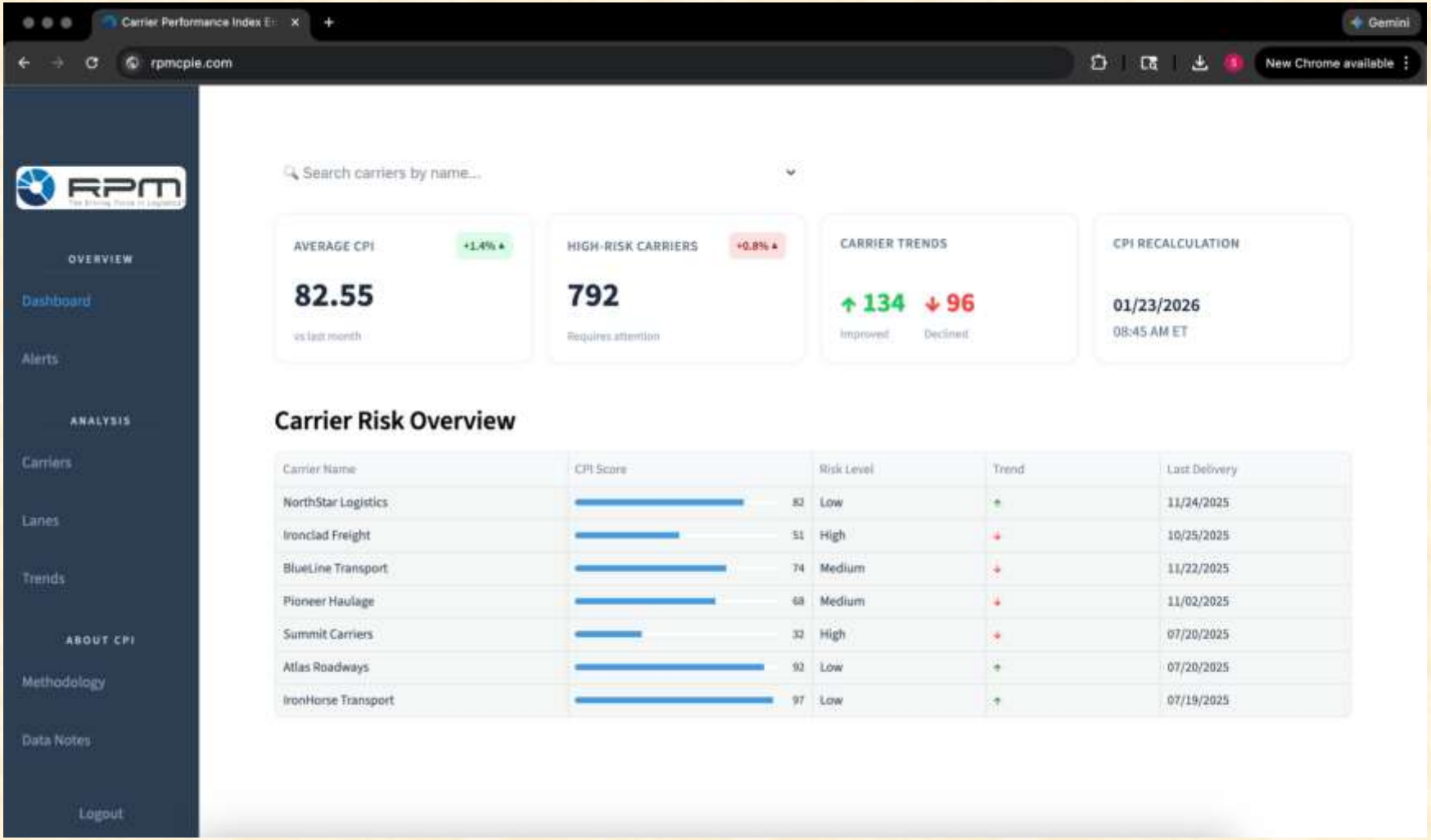
Project Overview

- Develop web application to ingest carrier data and evaluate carrier performance
- Utilizes Machine Learning to perform score calculation for each carrier
- Enables decision-making based on CPI score
- Give insights about carrier attributes for individual carriers

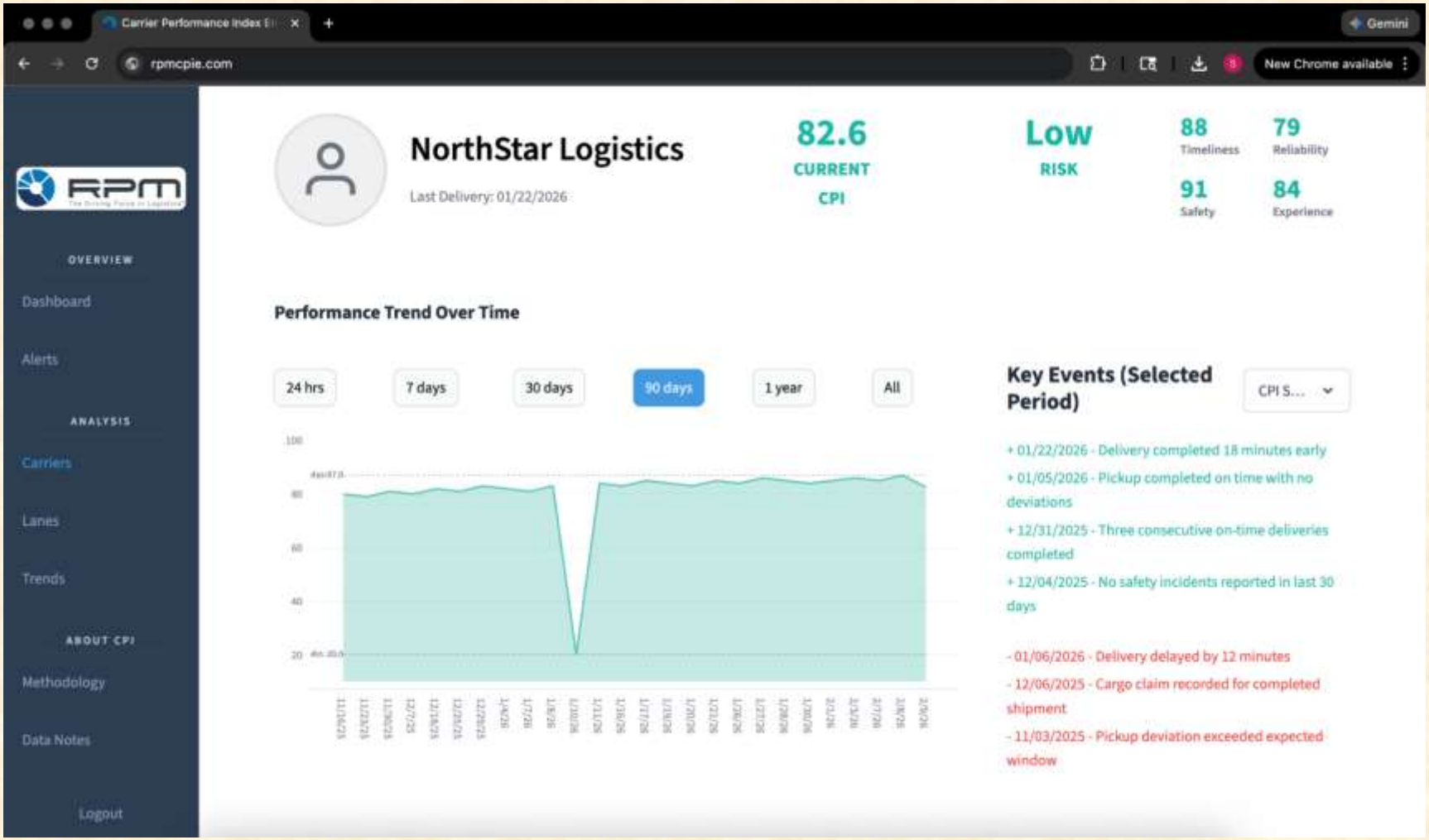
System Architecture



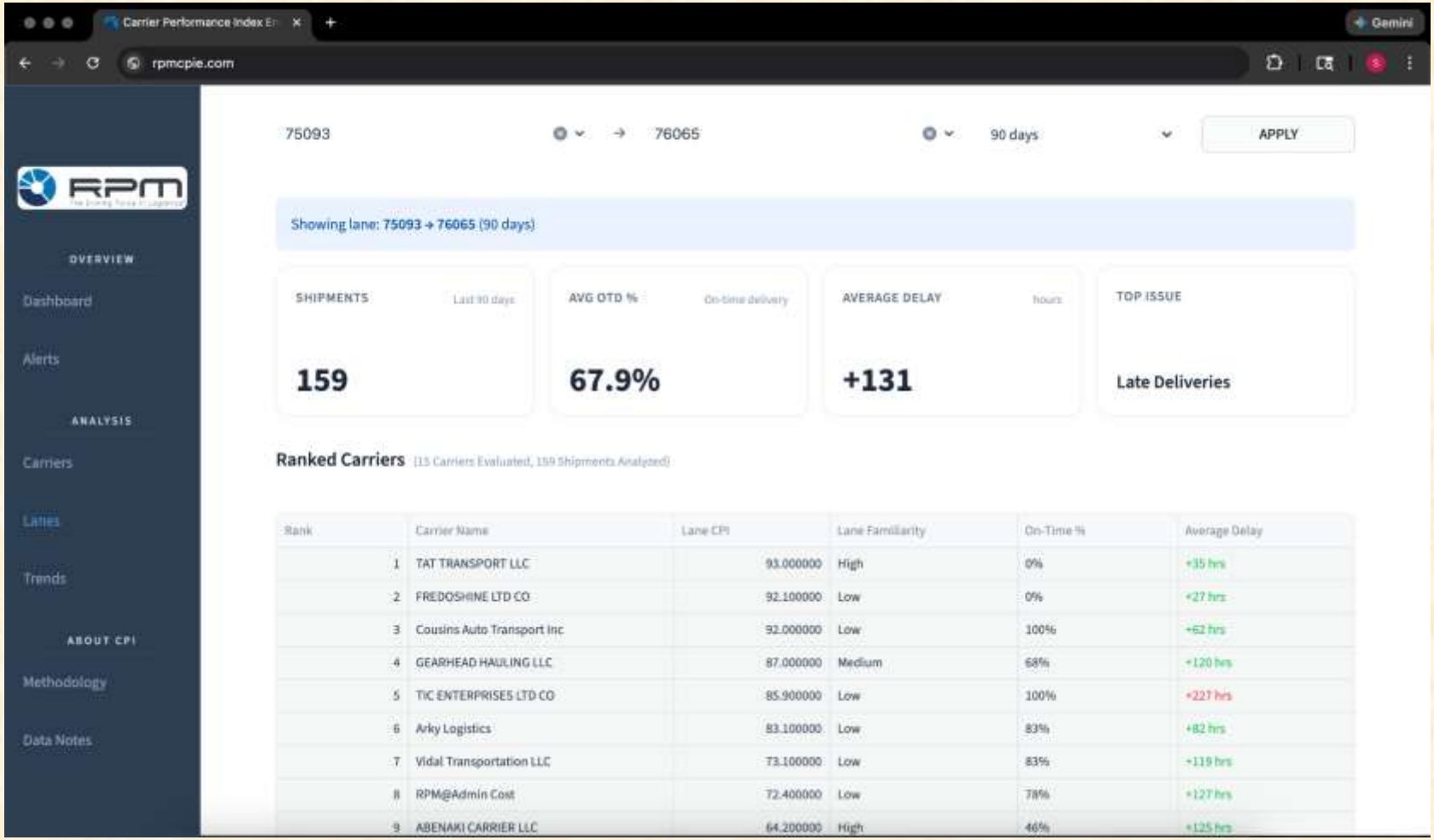
Main Dashboard



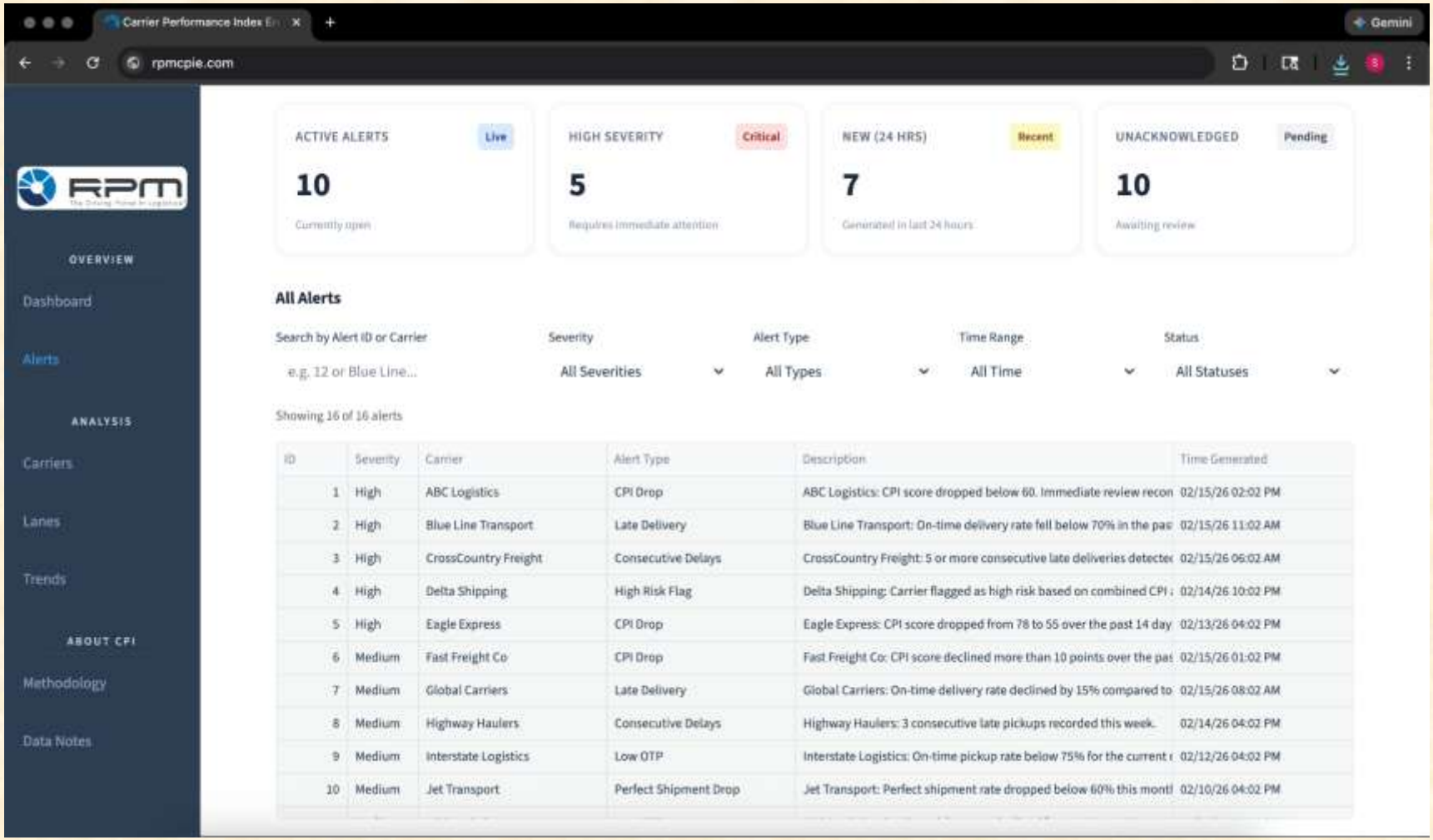
Carrier Detail View



Lane/Route Performance



Alerts and Risk Monitoring



What's left to do?

- Finalize UI and design
- Improve search bar efficiency
- Link live RPM data stream to the current persistent dataset
- Implement model updates for newly ingested data points
- Automated model retraining

Questions?

