

MICHIGAN STATE

UNIVERSITY

Beta Presentation

Change Insights Datamart and Risk
Assessment

The Capstone Experience

Team UWM

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Fall 2023



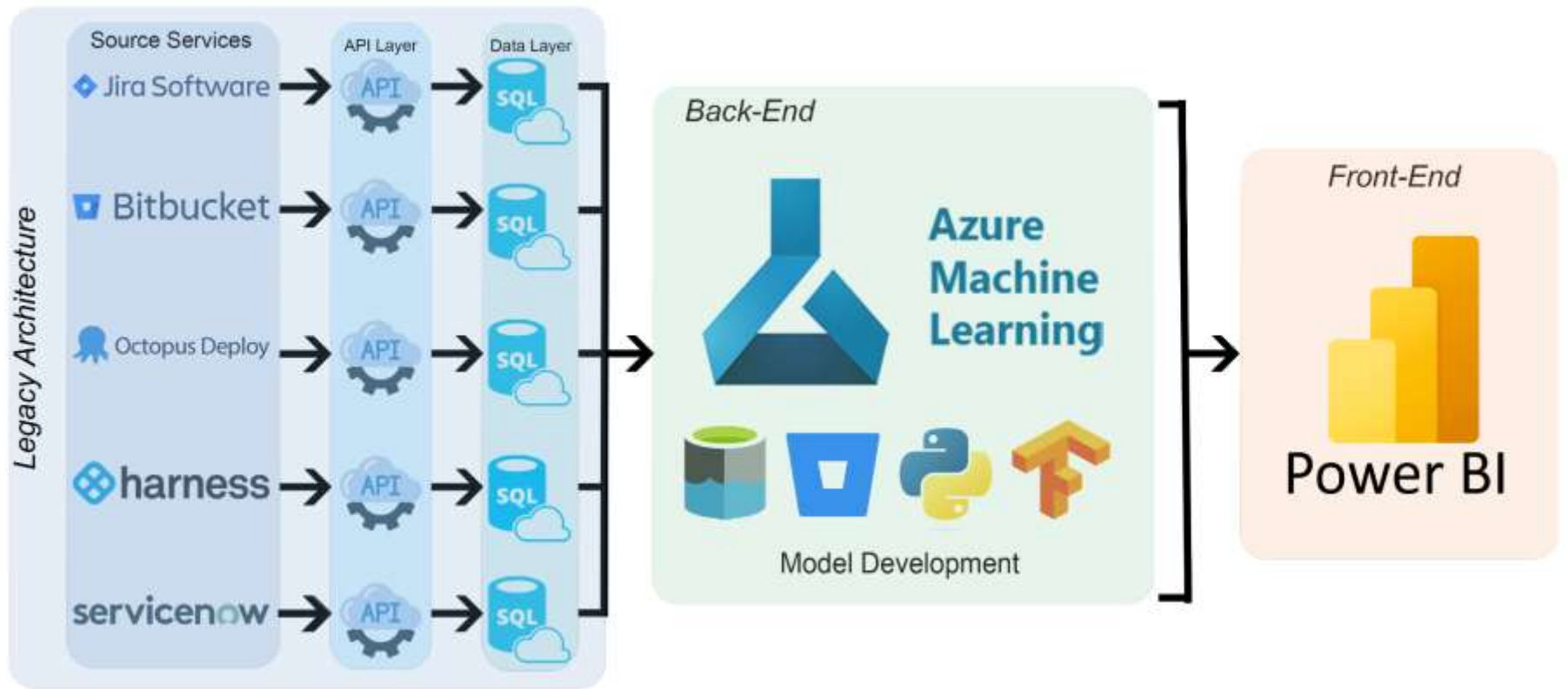
*From Students...
...to Professionals*

Project Overview

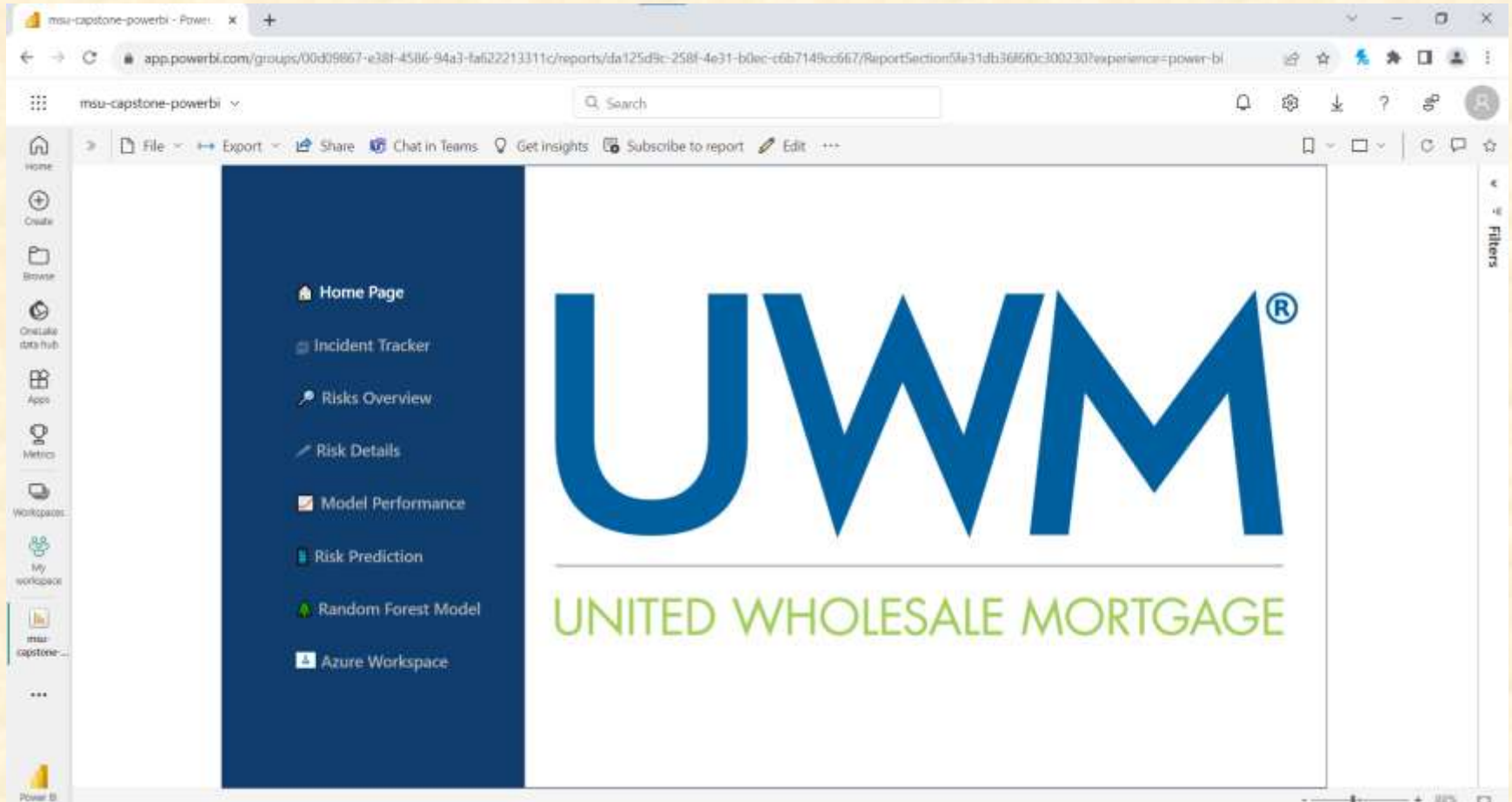
- Identify production risks during development
- Consolidate data from multiple systems into comprehensive DataMart
- Develop a model that assesses risk associated with each software change



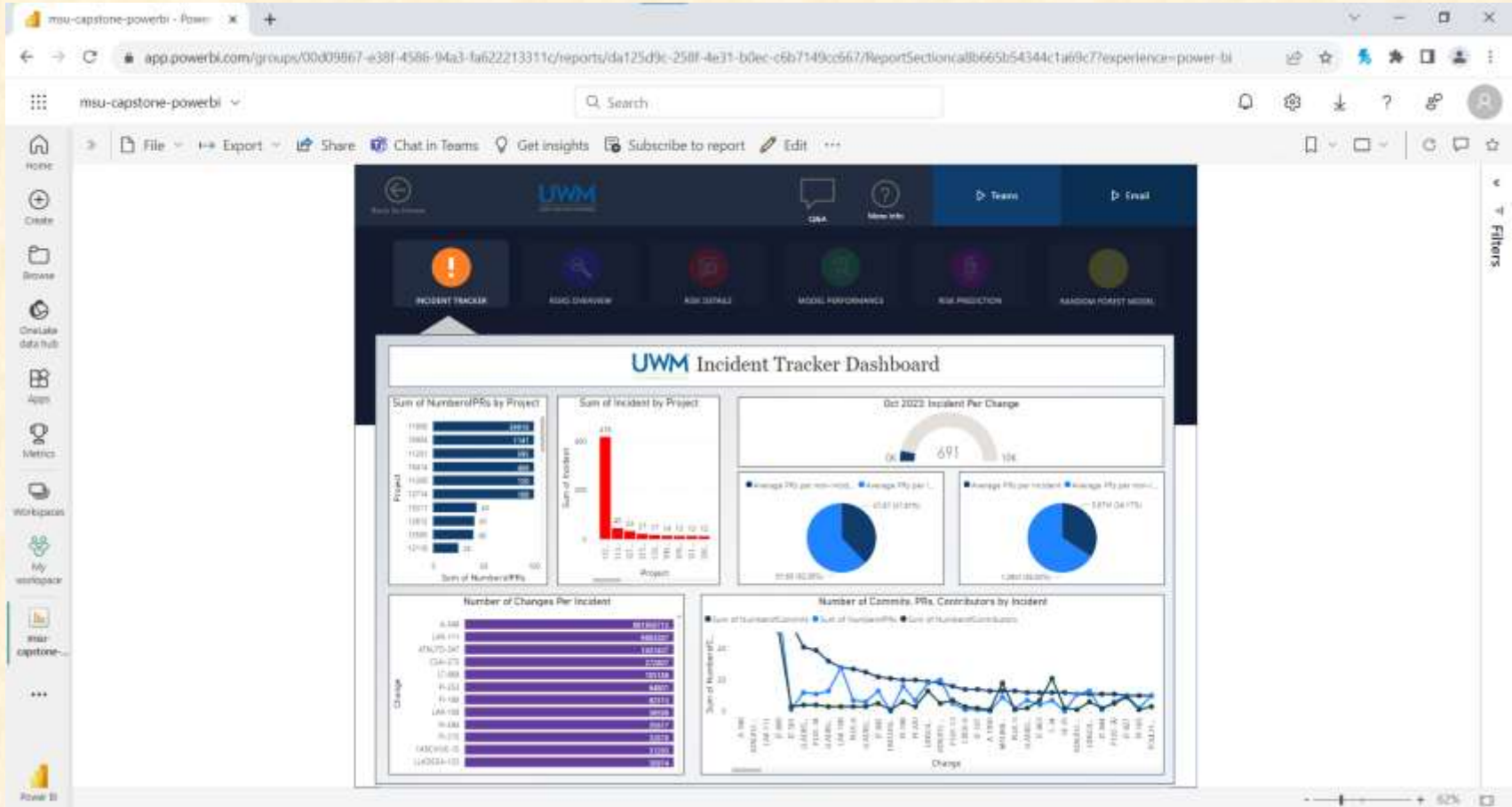
System Architecture



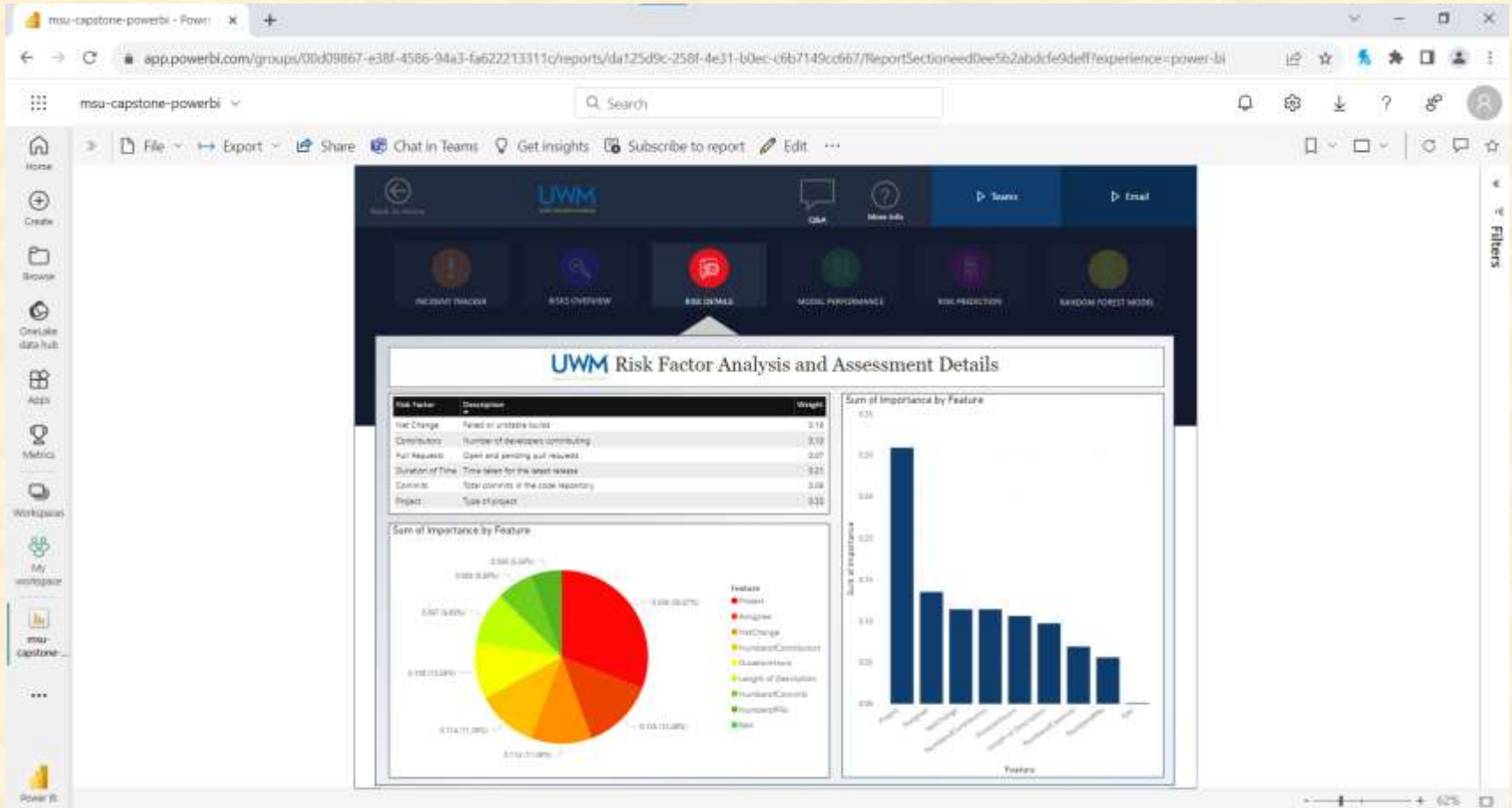
Home Page



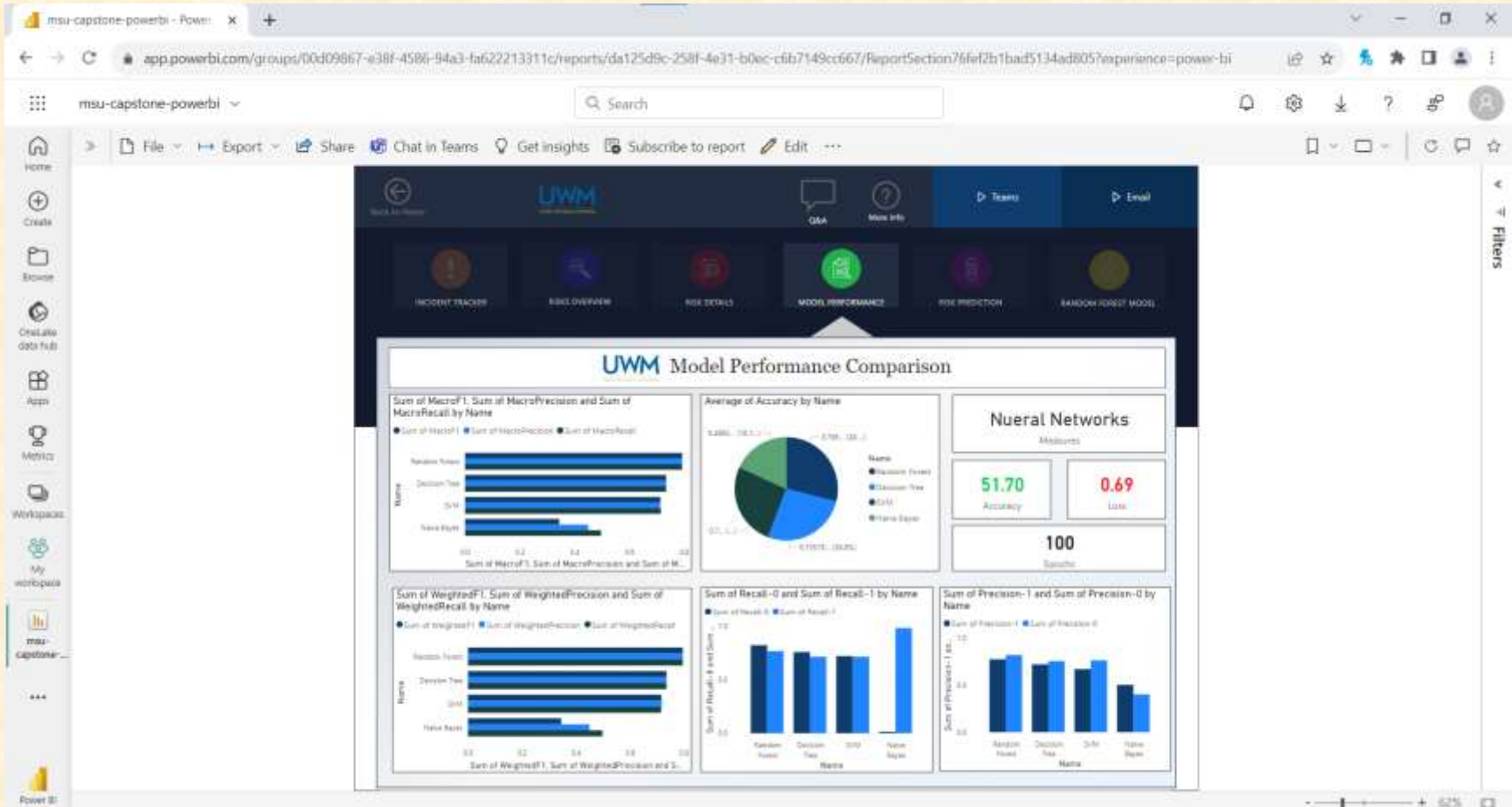
Incident Tracker Dashboard



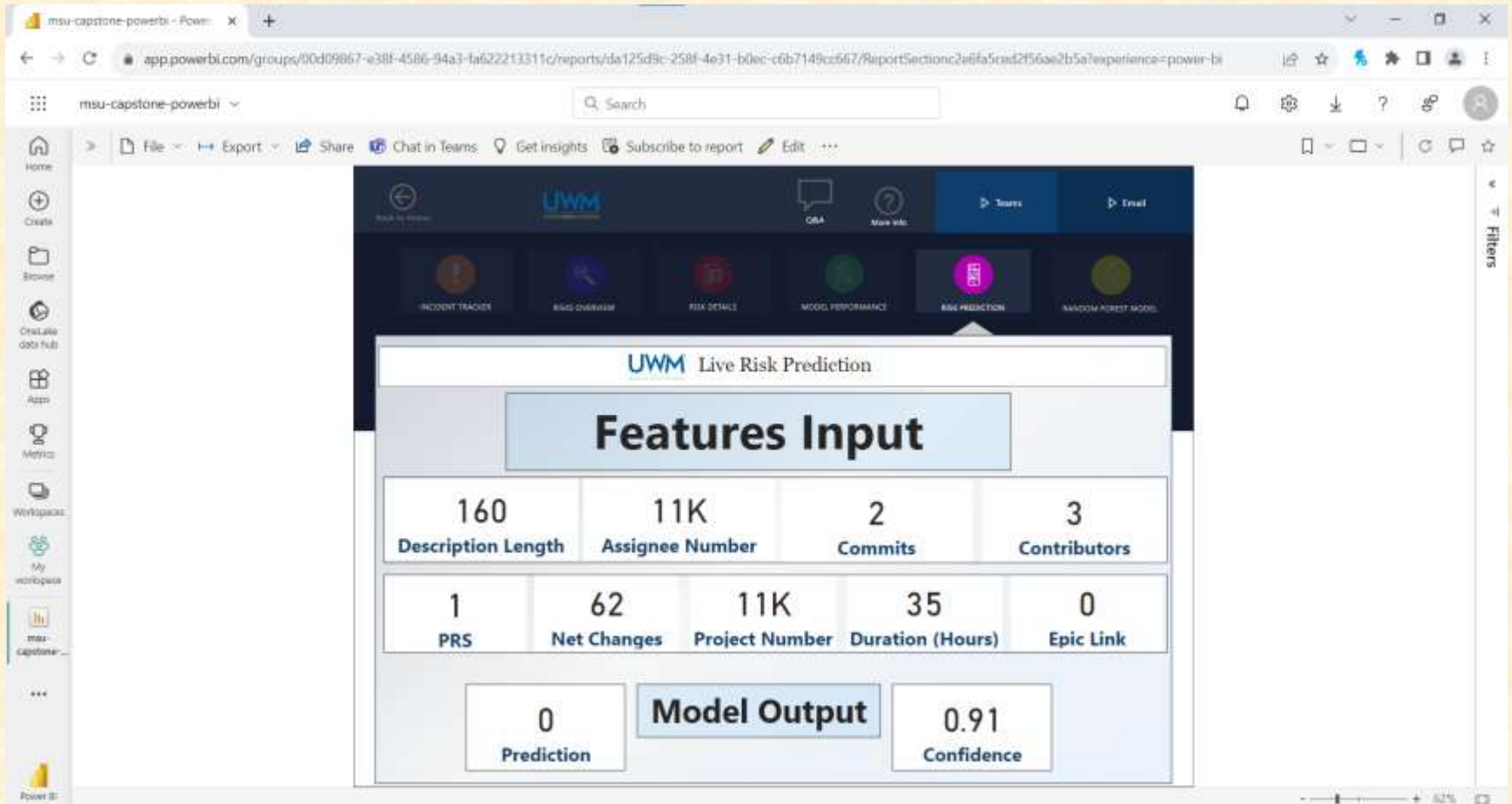
Risk Factor Analysis



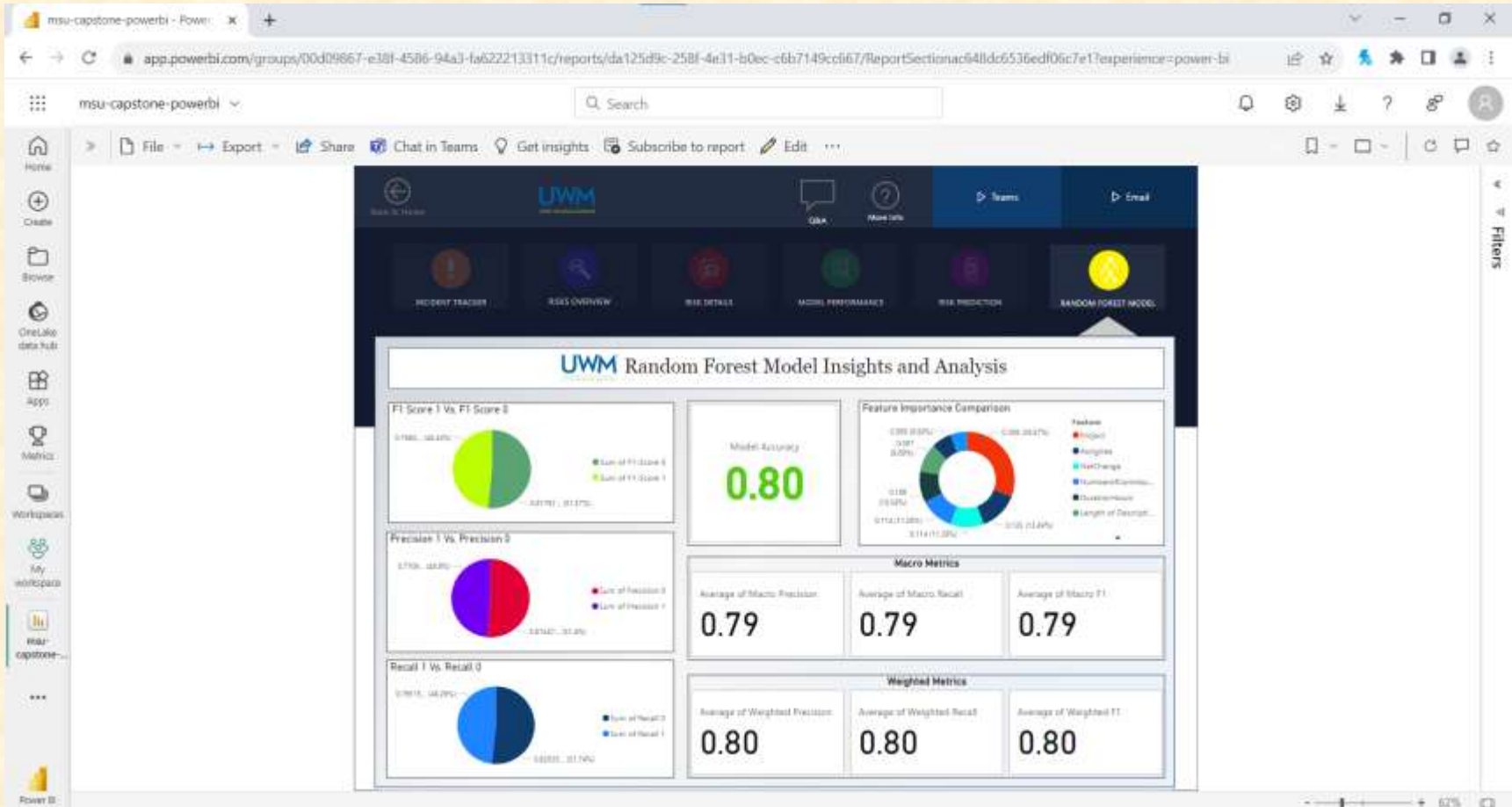
Model Performance Compare



Model Inputs and Outputs



Random Forest Overview



What's left to do?

- Stretch Goals
 - Live notifications (security)
 - Team related Information
- Other Tasks
 - Clean up Power BI
 - Improve model further



Questions?

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