

**MICHIGAN STATE**  
**UNIVERSITY**

# Alpha Presentation

## Analysis of Autonomous Vehicle Testing Video

### The Capstone Experience

Team Aptiv

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

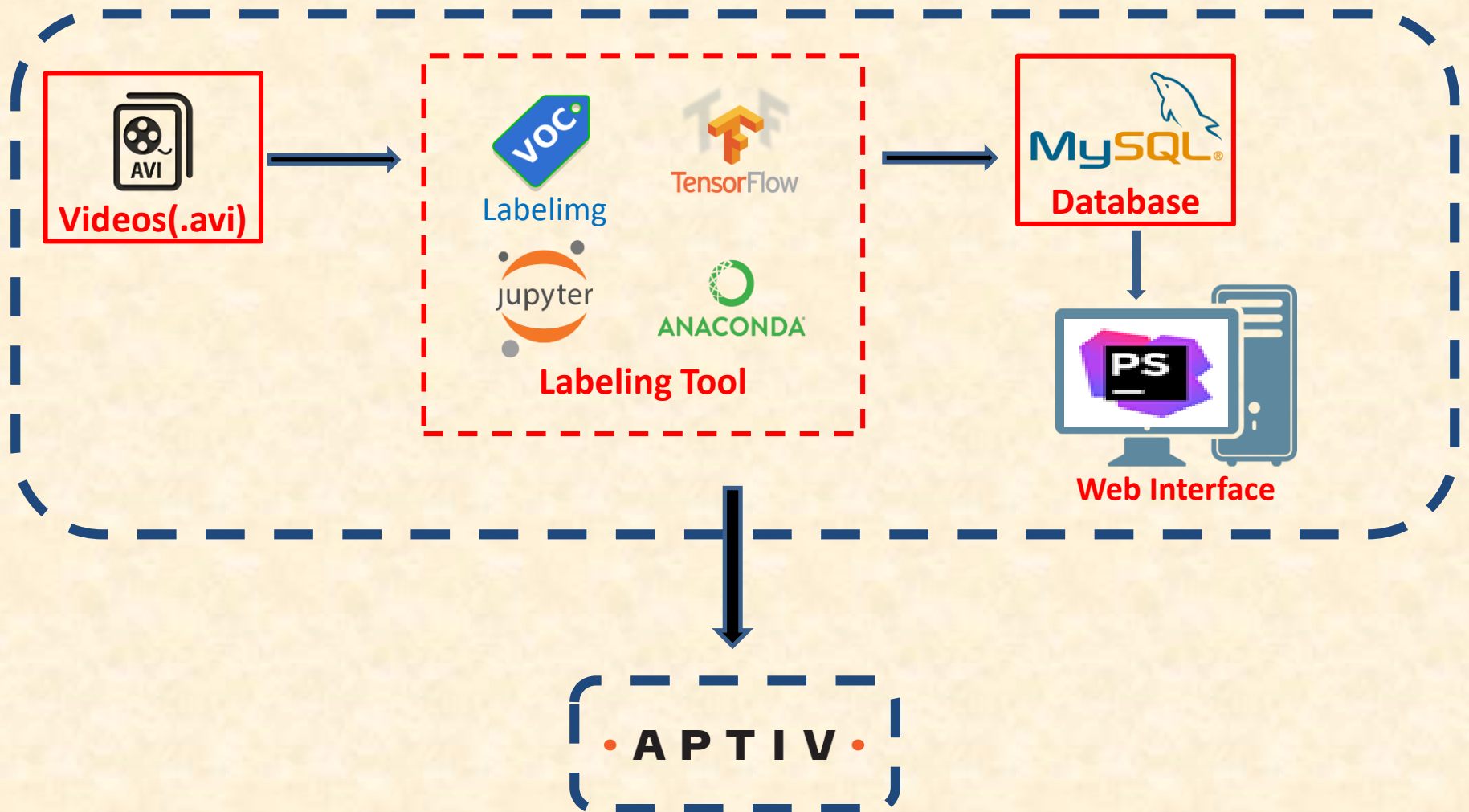
Department of Computer Science and Engineering  
Michigan State University  
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# Project Overview

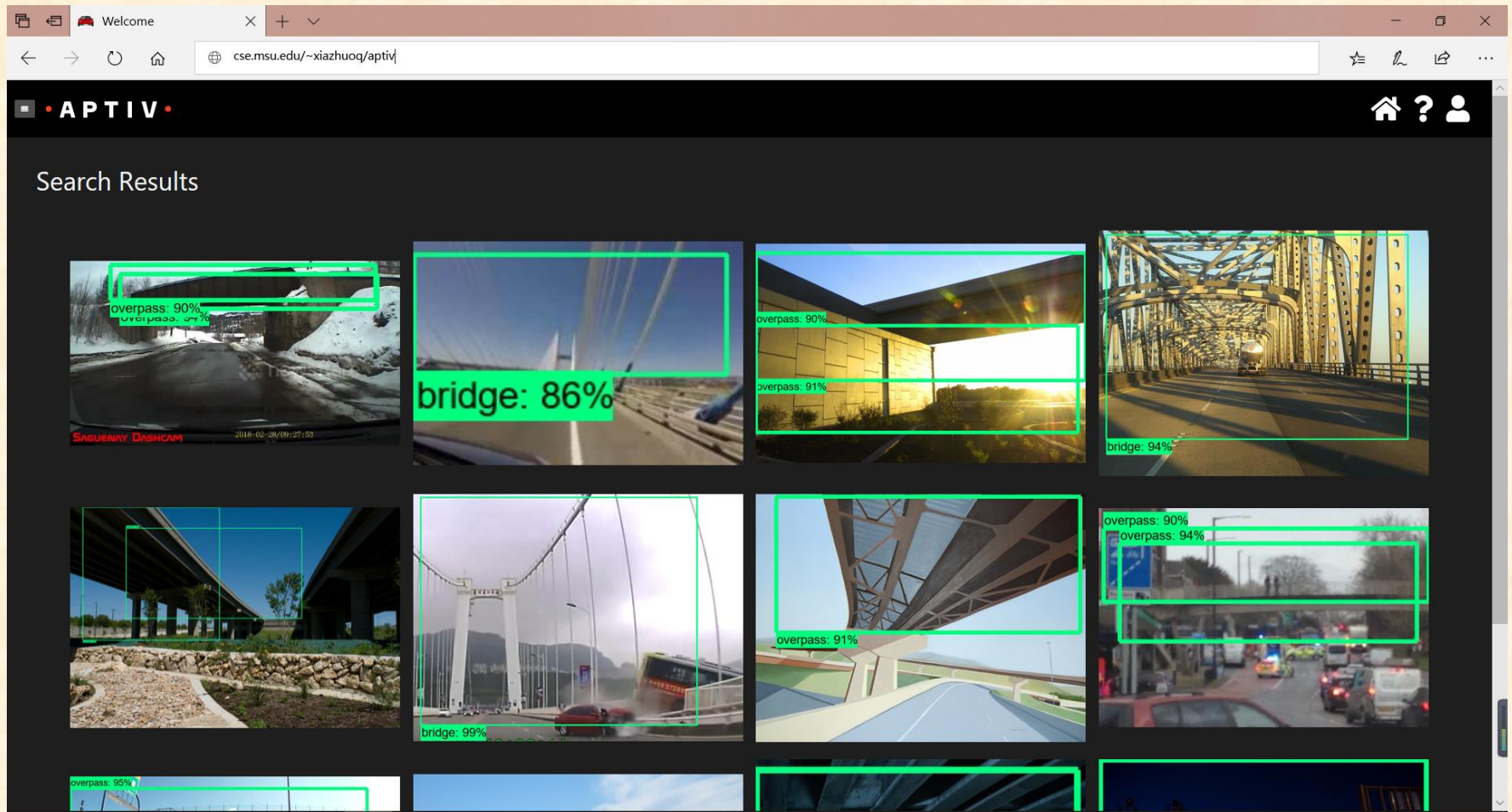
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- Model
  - Identify and annotate driving scenarios
  - Examples: overpass, bridge
- Database (DB)
  - Created schema for storing labelled images
  - Stream annotated images into DB for querying
- Web App
  - Created and connected to DB
  - Filter results by different features

# System Architecture

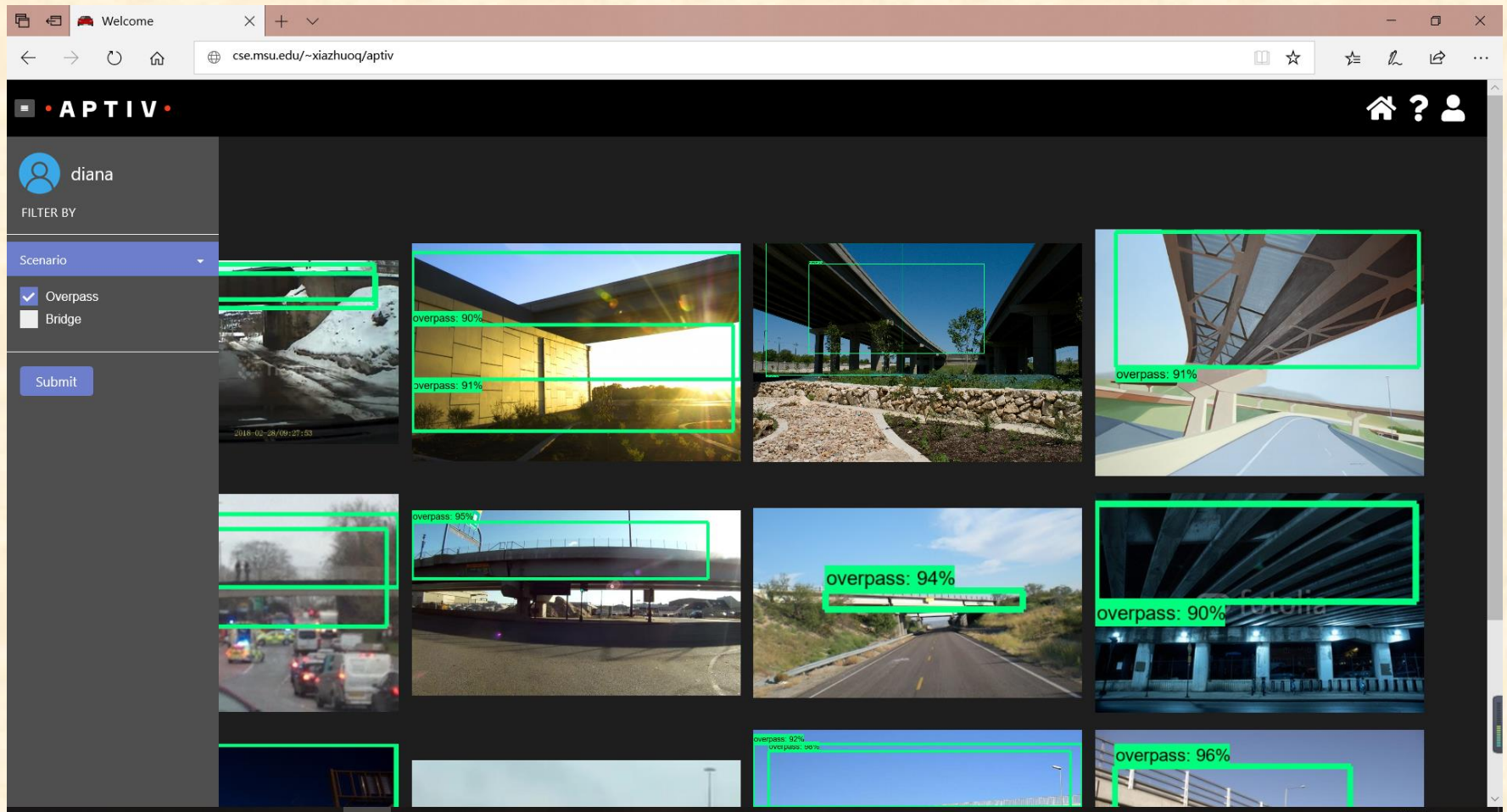


# Home Page

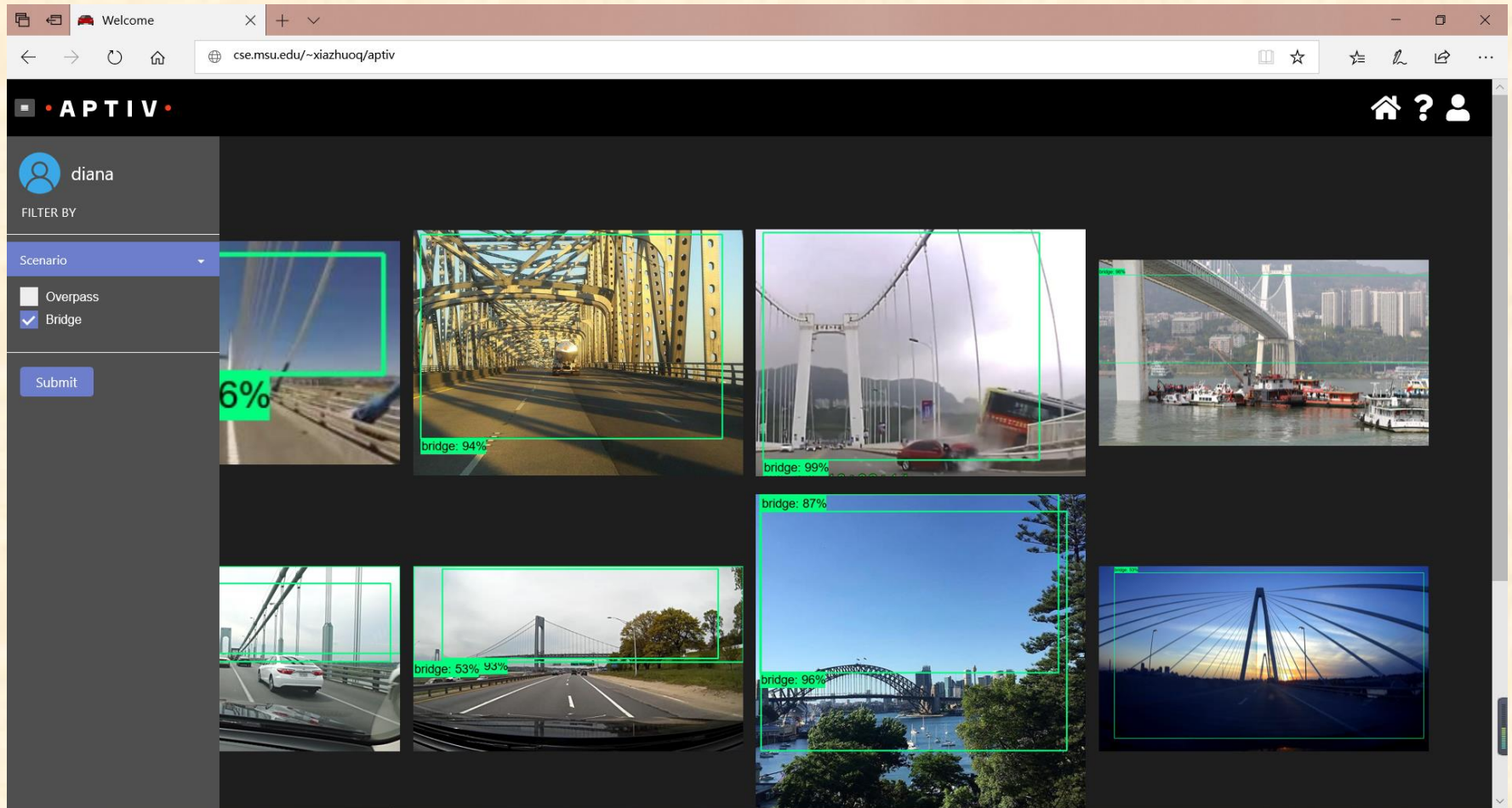




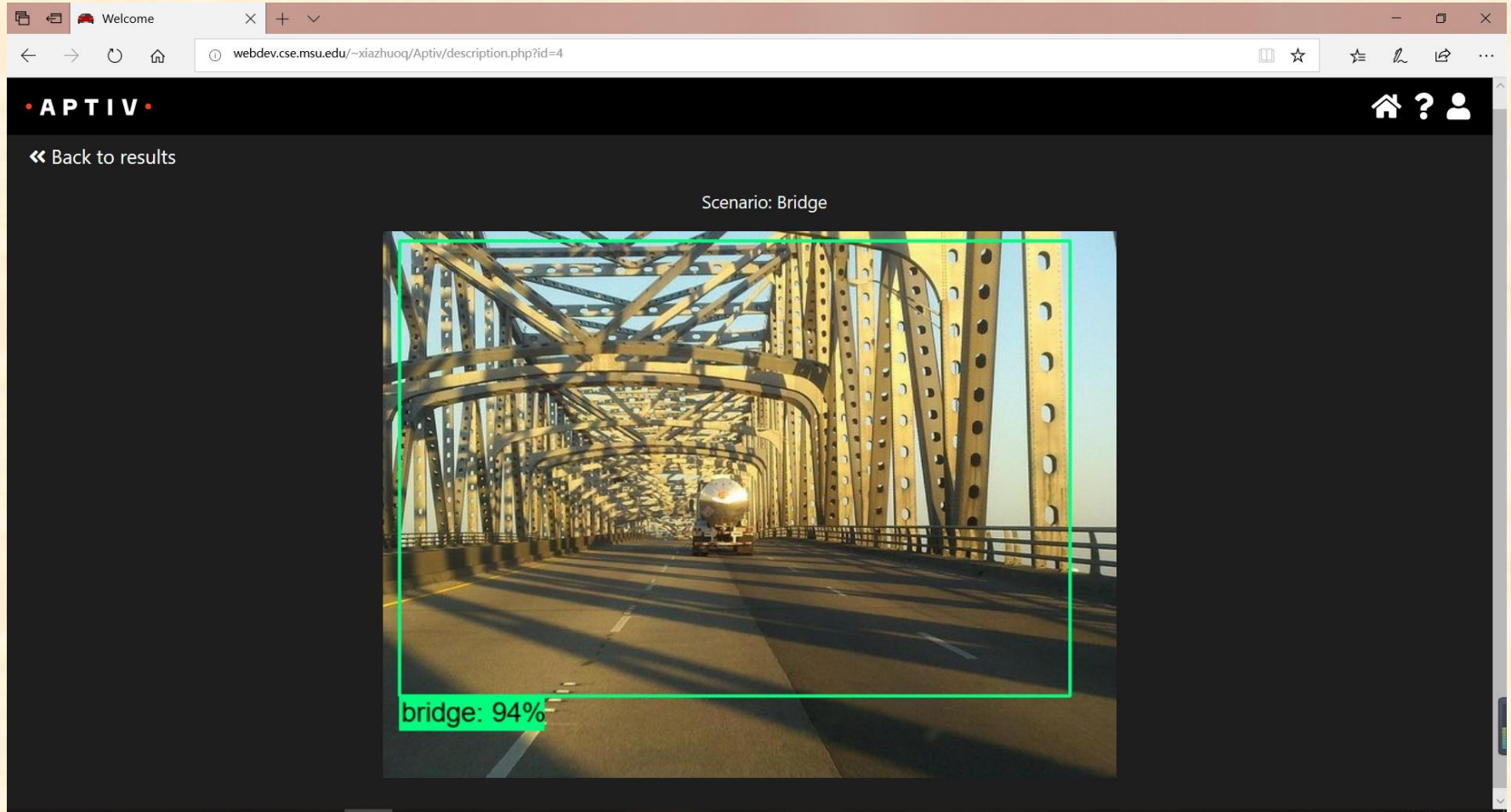
# Filter Result - Overpass



# Filter Result - Bridge



# Annotated Image Description





# What's left to do?

- Identify more scenarios and features
  - Scenario examples: toll booth, tunnel
  - Feature examples: time of day, weather
- Increase accuracy of annotation results
- Annotate streaming results from model to DB
- Reconcile web app design with Aptiv standards
- Update model components
  - Storing image results
  - Compatibility across different file types





# Questions?

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