Alpha Presentation
Analysis of Autonomous Vehicle Testing Video

The Capstone Experience
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Project Overview

• 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

Videos(.avi) → Labeling Tool → MySQL Database → Web Interface

Labeling Tool

APTI V

Team Aptiv Alpha Presentation
Home Page
Filter Result - Overpass
Filter Result - Bridge
Annotated Image Description

Scenario: Bridge

bridge: 94%
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?