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Date: Sep 25, 2022

Area of Focus

At the moment, I have tentatively chosen to focus on Architecture. Building a well designed workflow, and deploying an API. Ideally there will also be an interactive webpage allowing a user to easily interact with the product.

Capstone Ideas

1. Object Recognition

Description of Problem: Given a snapshot image, identify objects of interest, like pedestrians, cars, and barriers.

Application: Allow autonomous vehicles to accurately detect and describe what it sees while in use.

Data:

- [dataset search](#)
- [Roboflow](#)

2. Understanding User Reviews

Description of Problem: Use NLP to read user reviews and determine if a review is overly positive or overly negative.

Application: Sometimes, on websites with reviews, it can be common that a user review will have next to nothing to do with the numerical rating they give the product.

Data: Web Scraping, or communicating with an API for Amazon products, or movie review sites like Rotten Tomatoes.

3. Stock Market Predictor

Description of Problem: Use historical data to predict which stocks will go up, and which will go down.

Application: Advising stock traders on making reasonable trading decisions.

Data:

- [Stock Market Dataset](#)
- [S&P 500 Stock Data](#)