Cole Hopkins CSCI 490 Professor Siewert October 4, 2022

Draft Requirements and Test Plans

Test Plans

- 1) Install the app from an app store
- 2) Upload or take an image with good lighting/resolution, testing different image extensions
- 3) Get information back with details about the results
- 4) Take other images from the same area and see if different results occur, issue of overfitting

Constraints

- 1) Model has at least 70% accuracy
- 2) Model has less than 0.80 loss
- 3) App runs on Android
- 4) Results take less than 5 seconds to process
- 5) each dataset class must have 200 images

Qualities

- 1) The app should be simple to use useability
- 2) The model should be well documented and easy to follow readability
- 3) The app should be able to be used on both iPhone and Android availability
- 4) The app should run entirely locally security

Requirements

- 1) R1 Users should be able to install the app on Google Playstore
- 2) R2 Users should be able to take a picture or choose from a camera roll an image to process
- 3) R3 Users get information about the result of their image