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MAIS Deliverable 3 - COVID 19 CAT Scan Predictor
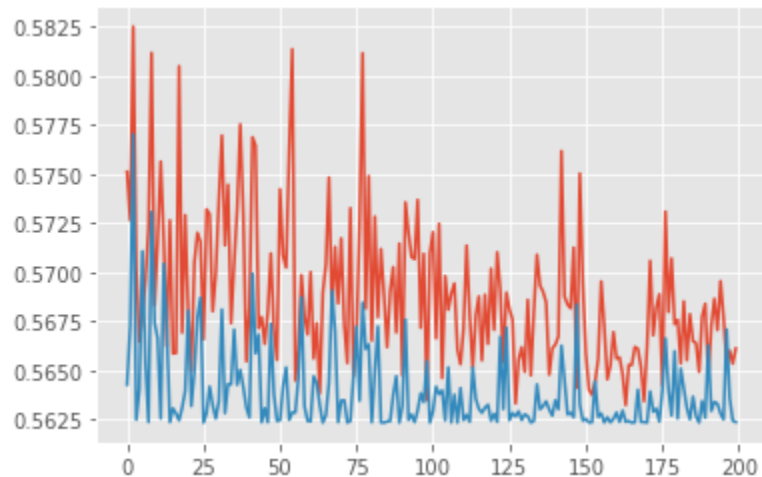
1. Final Training Results:

   There are no preliminary results to compare to as I did not have a working model during Deliverable 2.

   However, I did encounter complications with the dataset once I started using it. It only had around 300 images after I cleaned it, and barely had examples with no COVID 19 so I believe this contributed to the lack of accuracy once I trained a model using it.
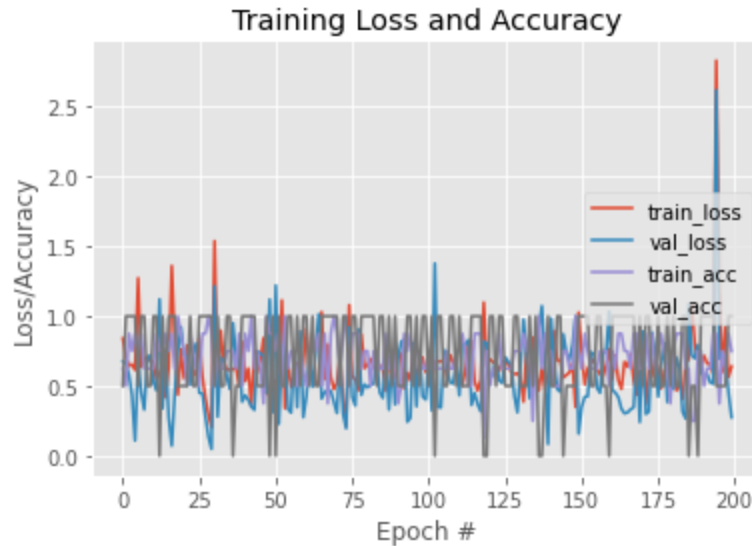

   The overall accuracy was around 0.67%.

   The new data was sourced here, and it has over 16000 files.

   Using it with a classification model resulted in this graph (same legend as previous), so I decided to remove all other classes except for COVID 19 and Normal.

Training Loss and Accuracy

This resulted in a graph with less variance in the values. Accuracy was a lot higher, hovering around 85%.

2. Integration:

I decided to integrate this using Flask. I already had some knowledge of Flask applications, along with HTML and CSS. I had to learn how to actually deploy the application online, though problems were encountered, so please run the files from Flask in the app.py in the Google Drive.
https://github.com/Vermillion-Chen/Covid19Predictor
https://drive.google.com/drive/folders/12e7PmajYcVx1vDM-BHuxrMmv9z1Got0g?usp=sharing

If it is deployed in time for marking, it will be here:
https://mais-covid-detection.herokuapp.com/