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Project 3 LSTM Documentation: Part 3 – Batch Prediction

Link to YouTube Video: https://www.youtube.com/watch?v=Ezknqr8czRY&feature=youtu.be
Link to GitHub Repository: https://github.com/tmartin293/CS663 Crosswalk Detection

Installation Instructions:

- All Juypter Notebooks were tested using a Python 3.7.1 kernel and TensorFlow 2.0.
- Please pip install or conda install all required packages prior to testing the Jupyter
 Notebook or the Python script: TensorFlow 2.0, glob, and numpy.

Screenshots:

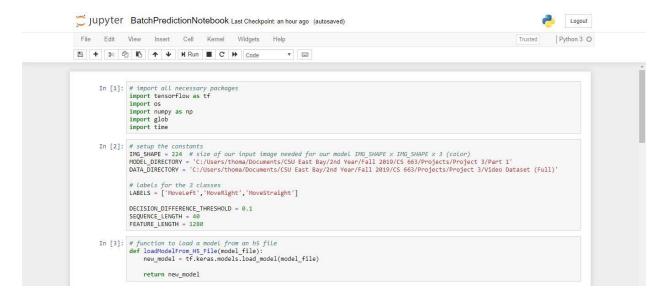


Figure 1: Cells 1-3 of the Jupyter Notebook

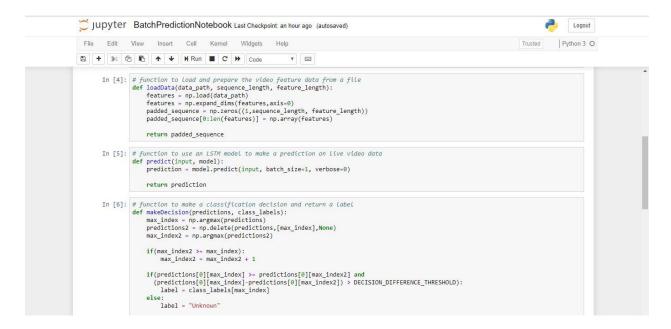


Figure 1: Cells 4-6 of the Jupyter Notebook

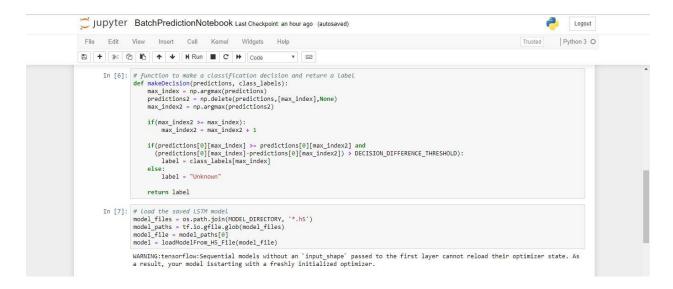


Figure 3: Cells 6 and 7 of the Jupyter Notebook

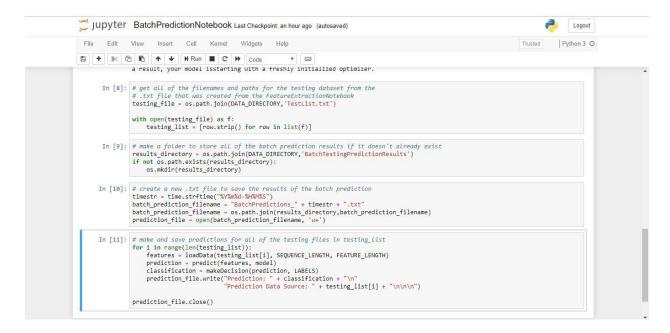


Figure 4: Cells 8-11 of the Jupyter Notebook

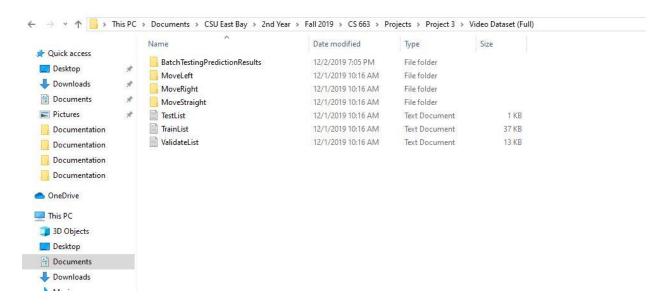


Figure 5: Directory Containing Batch Testing Results, Testing List, and Testing Data

Figure 6: Contents of TestList.txt that Contains the Two Video Files Per Class to Test

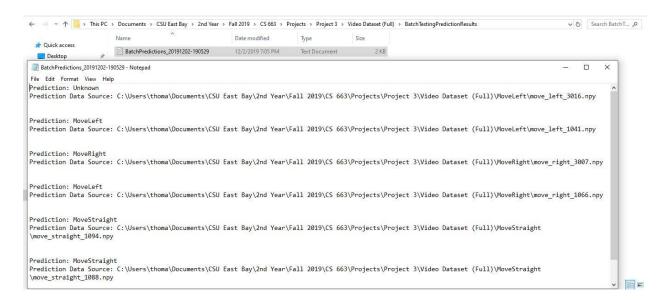


Figure 7: Contents of BatchPredictions File that Show the Prediction Value and File that the Prediction is Generated From