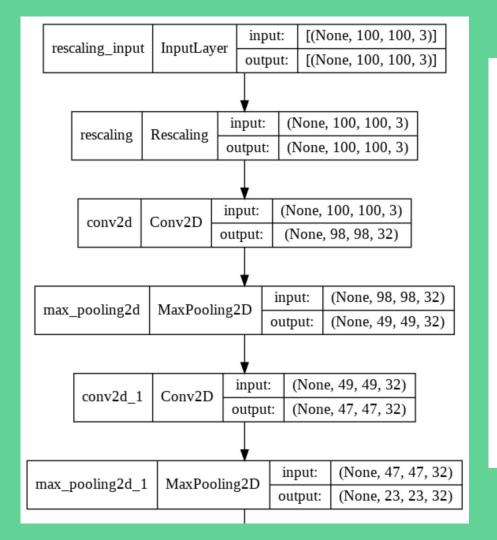
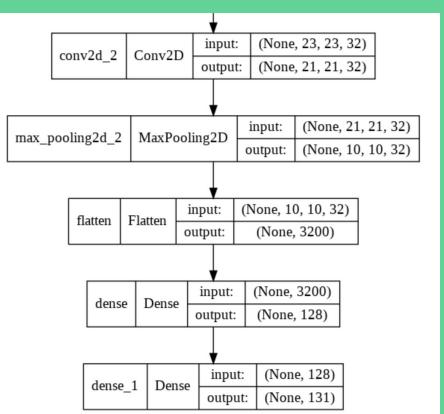
## Image Classification Fruits 360 Dataset

Tasfiq Ahmed and Varun Saini







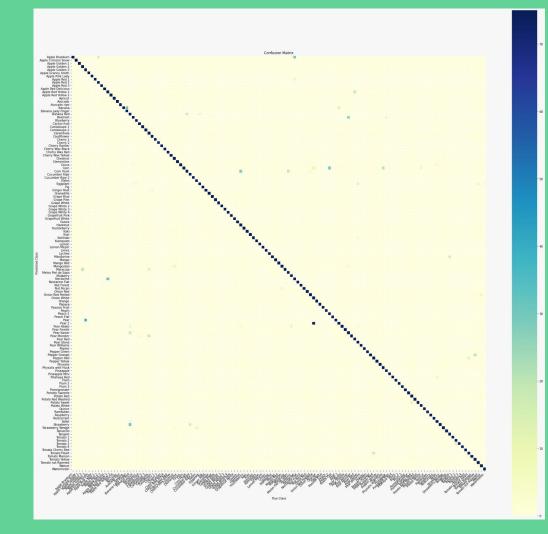
## Our convolutional neural network

**Accuracy: 96.6%** 

**Precision: 96.8%** 

**Recall: 96.4%** 

F1: 96.3%



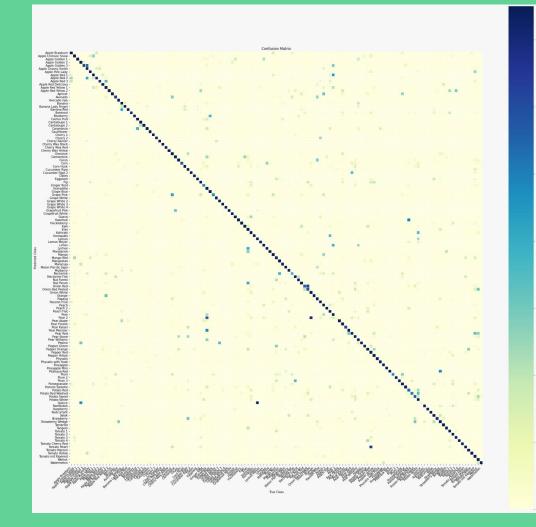
+ 2 trained dense layers

**Accuracy: 70.6%** 

**Precision: 74.3%** 

**Recall: 70.0%** 

F1: 69.7%



## Conclusions

- Model did well with images from the dataset, but failed to successfully identify handpicked images
  - Could be attributed to the specific formatting procedure in the dataset
- Best CNN unable to generalize well
- Performance of the transfer learning model
  - Not enough data for transfer learning model to be successful
  - Broader model overall, but accurately predicting classes for images in this dataset requires
    learning specific patterns
- Trade-off between overall robustness/generalizability and accuracy specifically on the Fruits 360 dataset