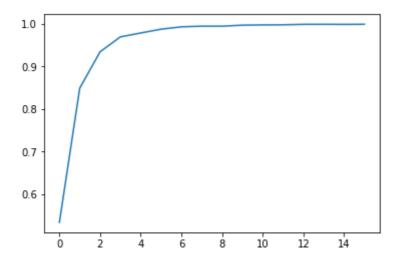
README.md 4/7/2019

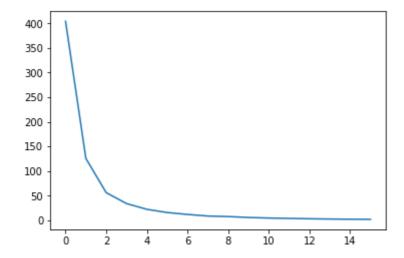
Assignment-2 Question-3

Learning Curves

Overall Accuracy



Loss



F-Scores

Length Prediction

[1. 1.]

Width Prediction

[1. 1.]

Color predictions

[1. 1.]

README.md 4/7/2019

Angle Prediction

```
[0.99940263 0.99727355 0.99758454 0.9997037 0.9997037 0.99969031 0.99912765 0.9994128 1. 1. 0.99878419 0.99847886]
```

Confusion Matrices

Length Prediction

Width Prediction

Color predictions

Angle Prediction

```
0
           0 0
                       0
                                0
                                   0]
[[1673
  1 1646
       6
                                   0]
  0
     2 1652 0 0
                0 0
                       0
                          0 0
                                0
                                    0]
        0 1687
             1
                       0
                                   0]
     0
        0
           0 1687
                 0
                       0
                                   0]
                                   0]
              0 1614 1
 0 0 0 0 0
                0 1718
                       0
                                   0]
 0 0 0 0 0 0
                    2 1702
                          0
                                   0]
 0 0 0 0 0
                       0 1649 0
                    0
                                   0]
 0 0 0 0 0
                    0
                       0
                          0 1670 0
                                    0]
  0 0 0 0 0
                    0
                       0
                          0 0 1643
                                    1]
     0
        0 0 0 0
                    0
                       0
  1
                          0
                             0
                                3 1641]]
```

Variations tried

- Changed filters to 16 and 32. Lead to overfitting.
- Increased dense layers to 512. Lead to overfitting.

README.md 4/7/2019

Inferences

- Only misclassification is happening in predicting the angles.
- Even then, angles are misclassified as angles close to the original angles.