DOCUMENTATION FOR MODEL AND APPROACH

1. ReLU is used as an activator **the usage of ReLU helps to prevent the exponential growth in the computation required to operate the neural network**. If the CNN scales in size, the computational cost of adding extra ReLUs increases linearly.
2. Sparse categorical cross-entropy is used as the problem involves multi-class classification

Results

Accuracy=65.55%

F1 score:

0 0.60

1 0.47

2 0.72

3 0.79

4 0.73

5 0.42

6 0.78

7 0.79

8 0.72

9 0.52

10 0.60

11 0.57

12 0.59

13 0.78

14 0.64

15 0.79