CSE40868-NeuralNetworks

Colin Lo

Image Binary Classification Model



VS









Structure



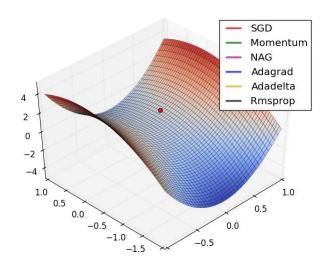
Accuracy

```
me-source : 1.0
everyone-source : 0.9411764705882353
me-source: 1.0
everyone-source : 0.9629629629629629
me-source : 0.9787234042553191
everyone-source : 0.9767441860465116
Accuracy on the test (unknown) data: 97.78%
```

Good at identifying my face and other people

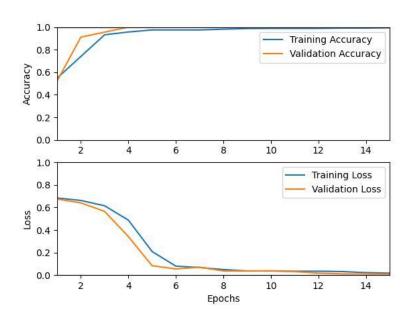
Optimizer and Loss function

SGD is used for better optimal solution



Cross Entropy Loss is used for getting better performance when the predicted output is far from the true output

Accuracy



How the model is being trained.

Number of Sample



x450



x450

Training

Batch Size 32 Epochs 15

Visualising how the model perform





Side Face Detection

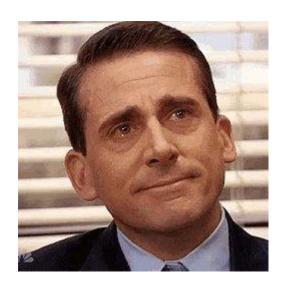
Visualising how the model perform





Detection of my face with my accessories, such as headphones

Visualising how the model perform





Successfully identify other people even with similar face shape