Practical Aspects of Data Science

Project 1

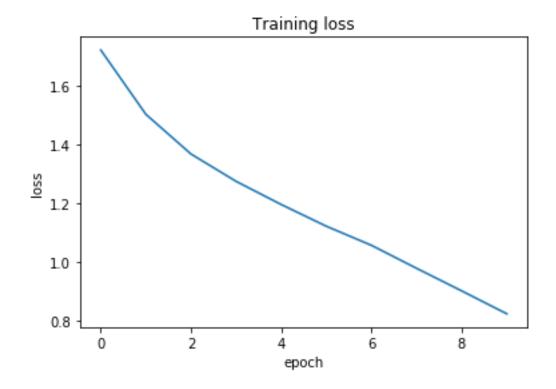
Team Members:

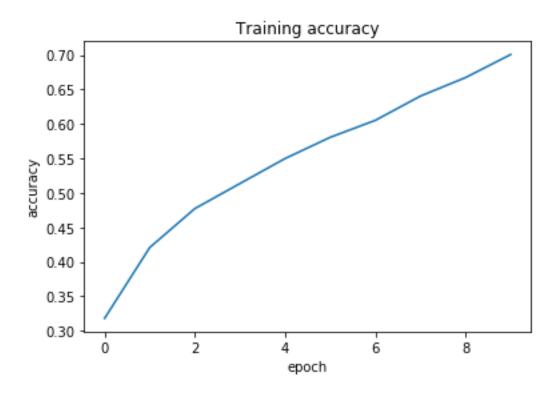
- 1. Poonam Gillurkar PXG180009
- 2. Pawan Patil PXP180029
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Topic:

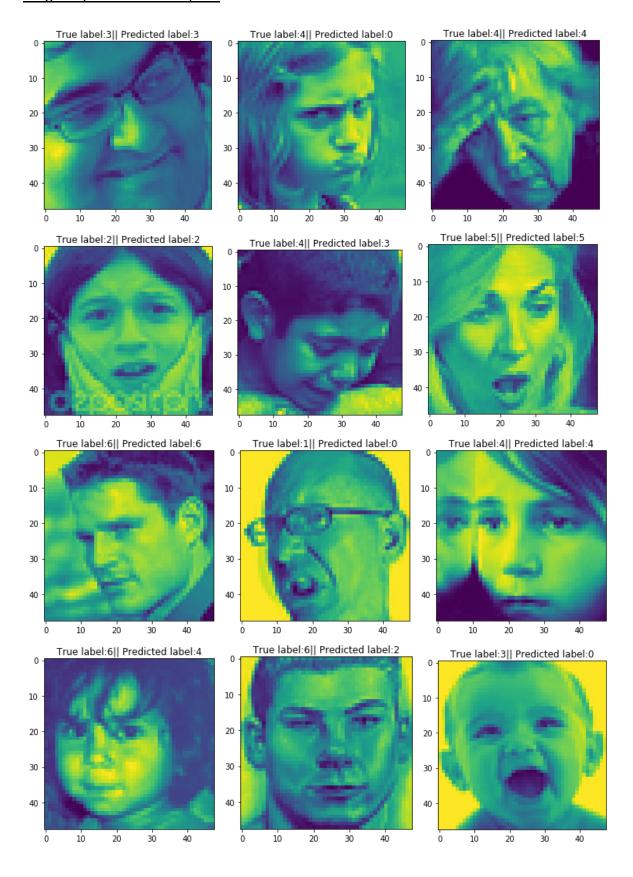
Challenges in Representation Learning: Facial Expression Recognition Challenge

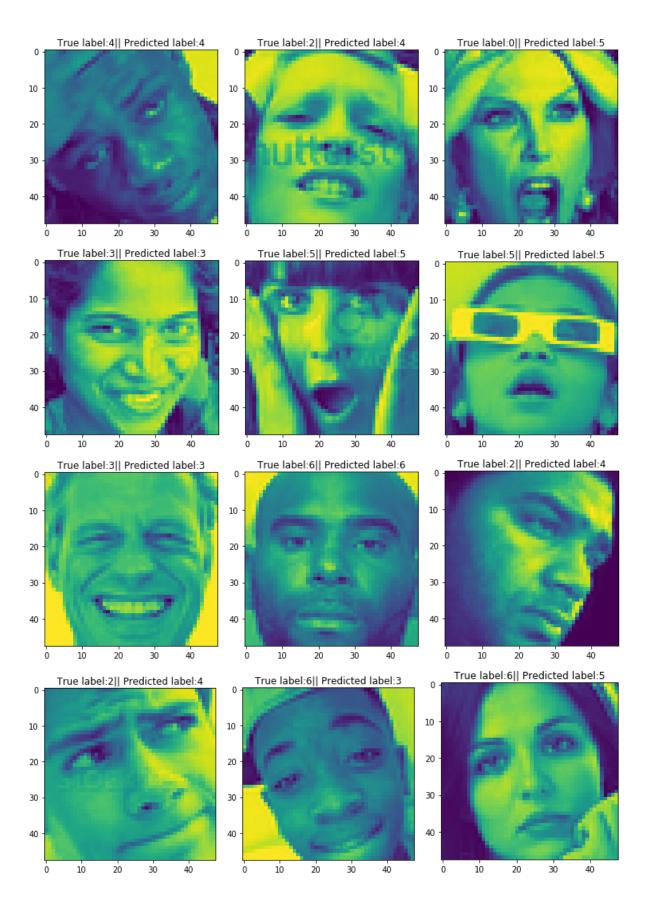
History plots for training loss and accuracy as a function of number of iterations (epochs):

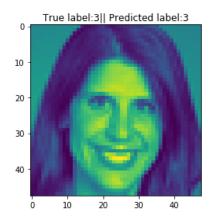




<u>Program prediction examples:</u>







Parameter Tuning:

Iterations	Parameters	Training and test accuracy
1	No. of layers = 2	Train = 40%
	Kernel size layer = (3,3)	Test = 33%
	Activation function = relu,	
	softmax (output)	
	Epochs = 10	
	Learning rate = 0.0001	
2	No. of layers = 5	Train = 45%
	Kernel size layer = (3,3)	Test = 44%
	Activation function = relu,	
	softmax (output)	
	- I 20	
	Epochs = 20	
	Learning rate = 0.001	
3	No. of layers = 7	Train = 70%
	Kernel size layer = (3,3)	Test = 54.6%
	Activation function = relu,	
	softmax (output)	
	5 1 10	
	Epochs = 10	
	Learning rate = 0.01	