

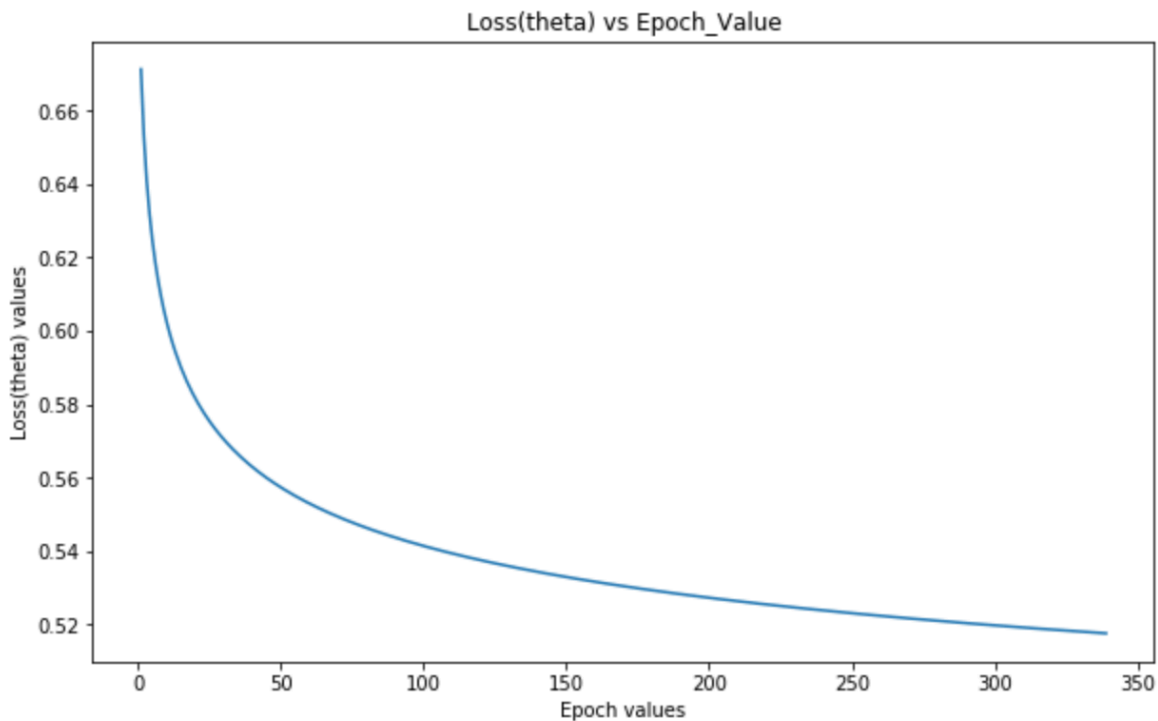
Question 2.3

1)

(a) Report the number of epochs that your algorithm takes before exiting.

339

(b) Plot the curve showing $L(\theta)$ as a function of epoch.



(c) What is the final value of $L(\theta)$ after the optimization?

0.5176151929899254

2)

(a) Report the values of (η_0, η_1) . How many epochs does it take? What is the final value of $L(\theta)$?

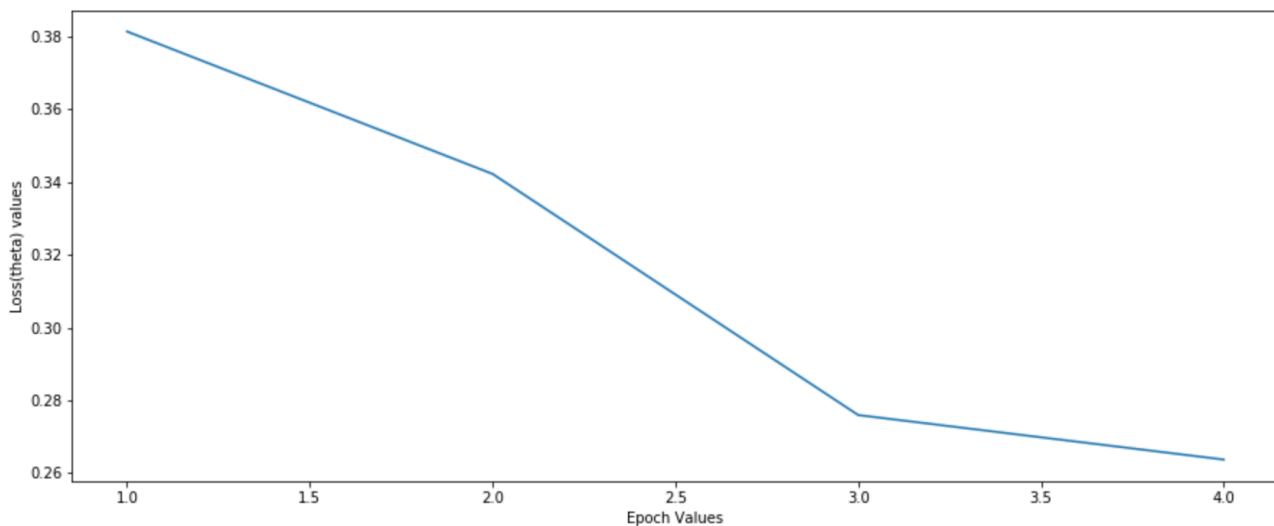
$\eta_0 = 40$

$\eta_1 = 0.2$

number of epochs = 4

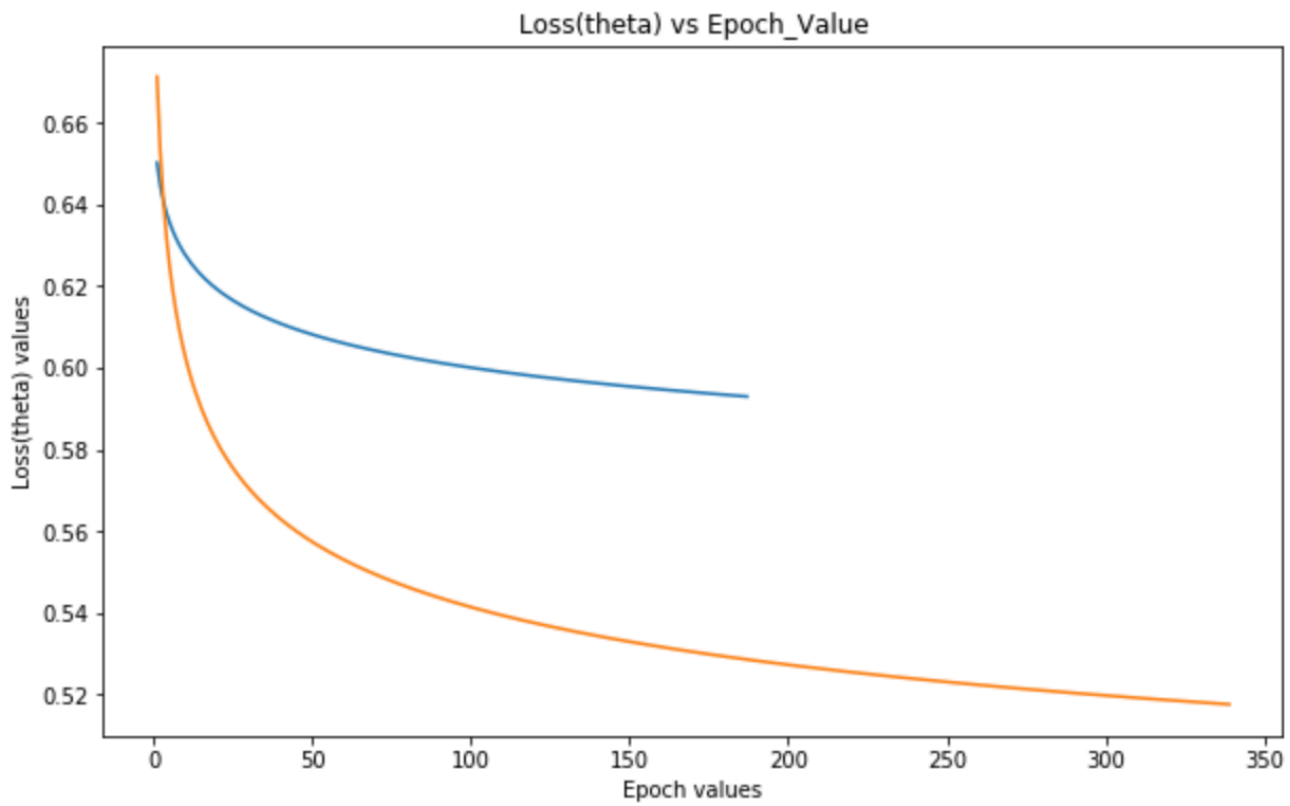
Final value of $L(\theta) = 0.26155505584268873$

(b) Plot the curve showing $L(\theta)$ as a function of epoch.



3)

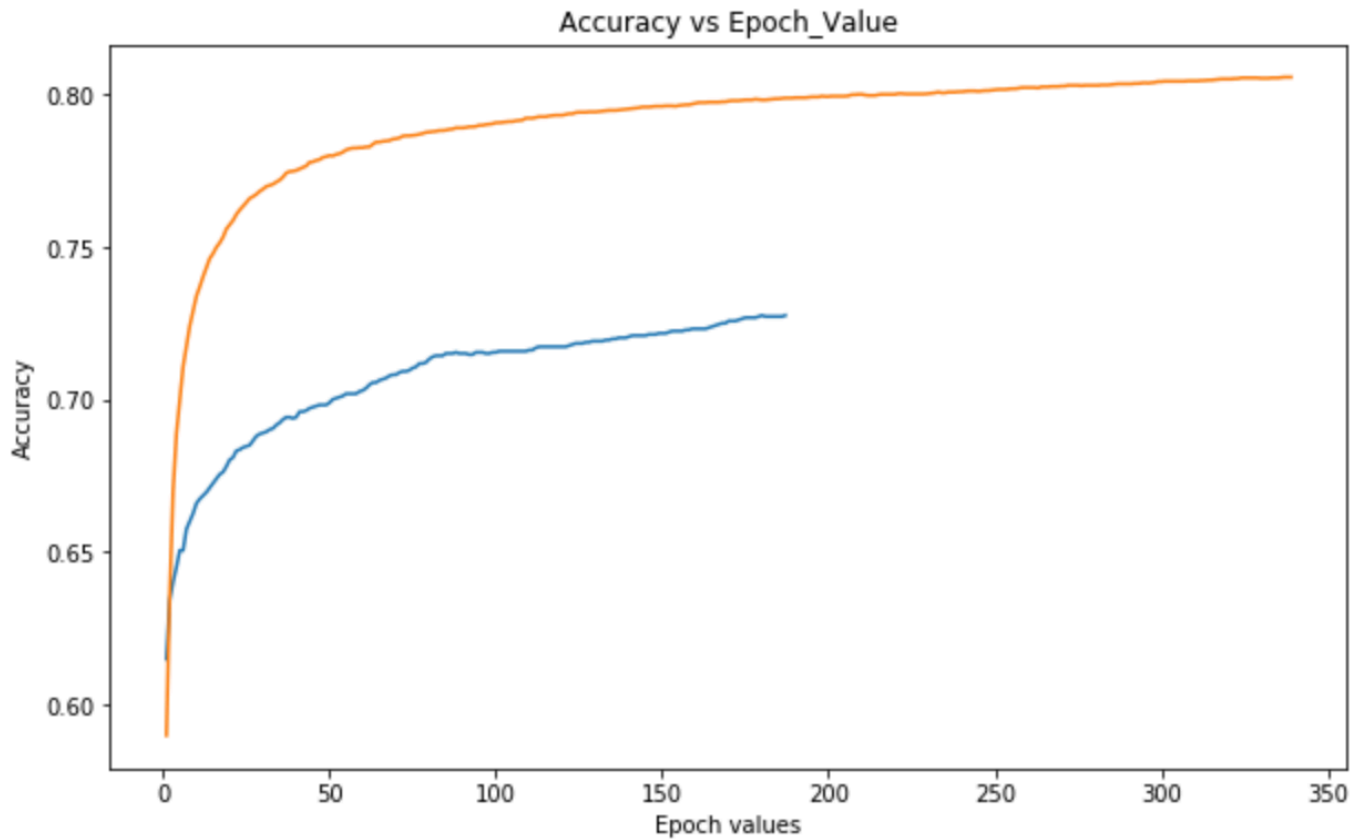
(a) Plot $L(\theta)$ as a function of epoch. On the same plot, show two curves, one for training and one for validation data.



Blue Line - Validation Data

Orange Line - Training Data

(b) Plot the accuracy as a function of epoch. On the same plot, show two curves, one for training and one for validation data.

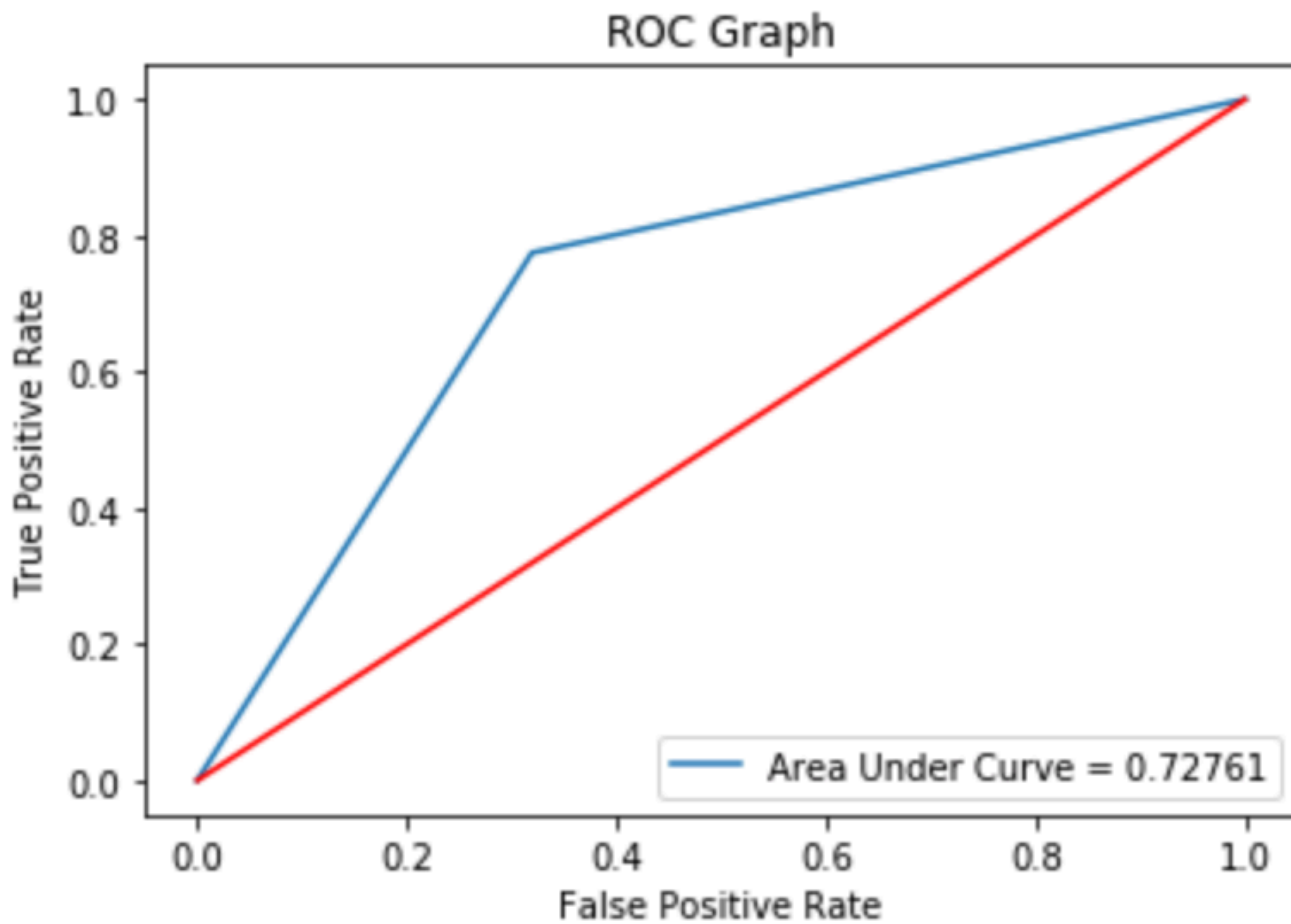


Blue Line - Validation Data

Orange Line - Training Data

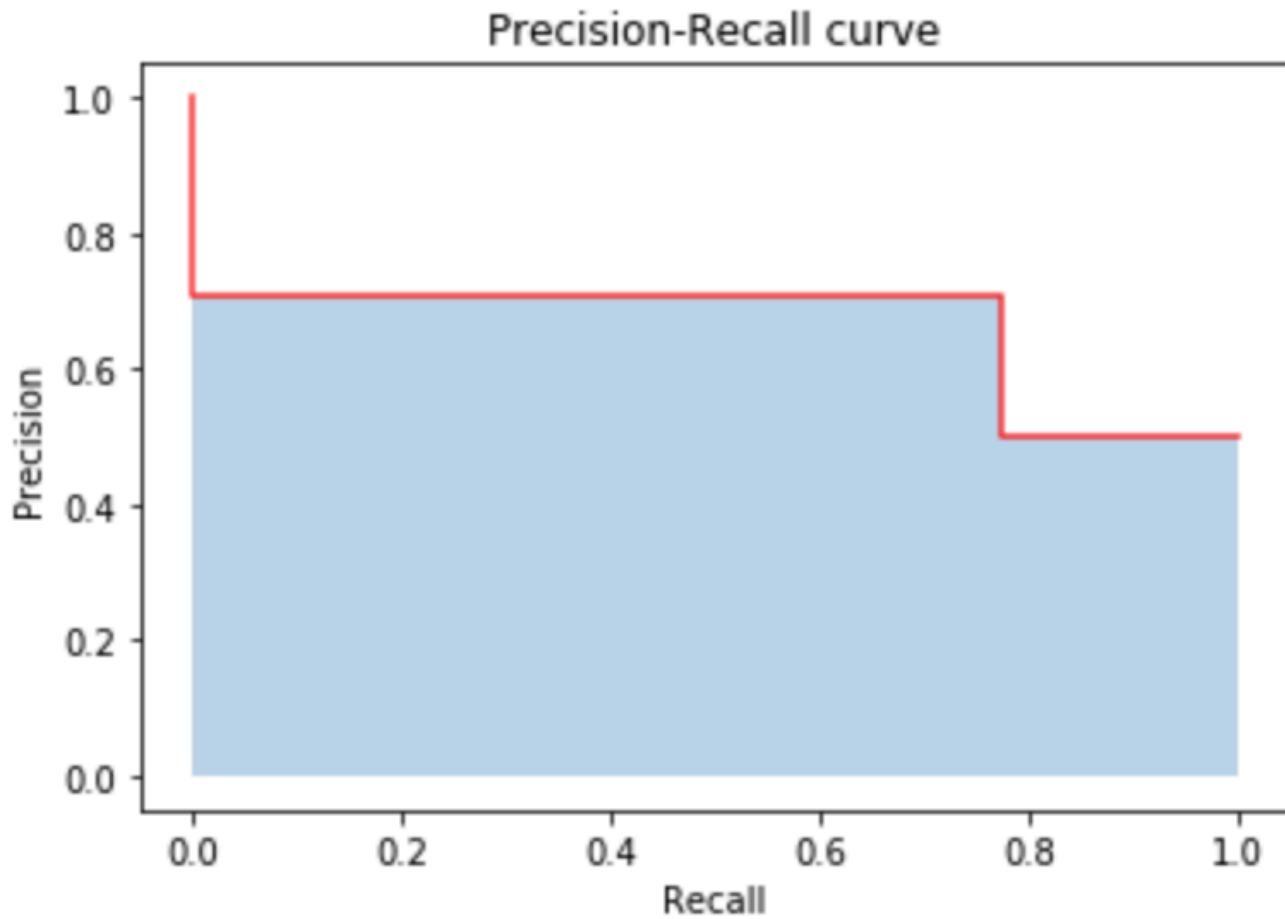
4)

(a) Plot the ROC curve on validation data. Report the area under the curve.



Area under curve = 0.7276064610866374

(b) Plot the Precision-Recall curve on validation data. Report the average precision.



Average Precision = 0.6611575949304713

Question 2.4

Accuracy from leader board - **0.89029**

23	new	Astitv Nagpal		0.89029	11	1d
Your Best Entry ↑						
Your submission scored 0.89029, which is an improvement of your previous score of 0.88776. Great job!				Tweet this!		