



CSE 616 ASSIGNMENT 1

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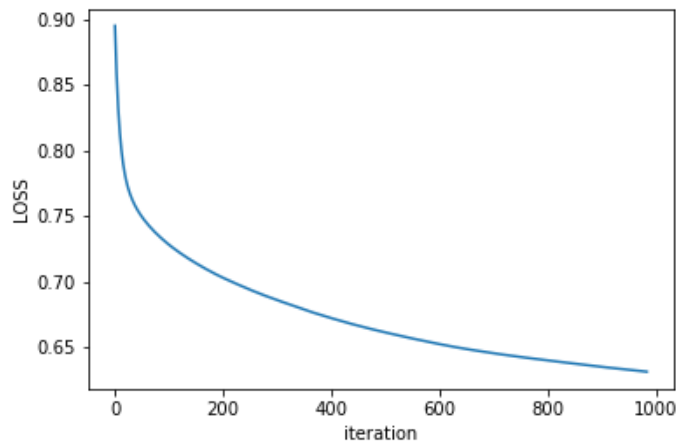
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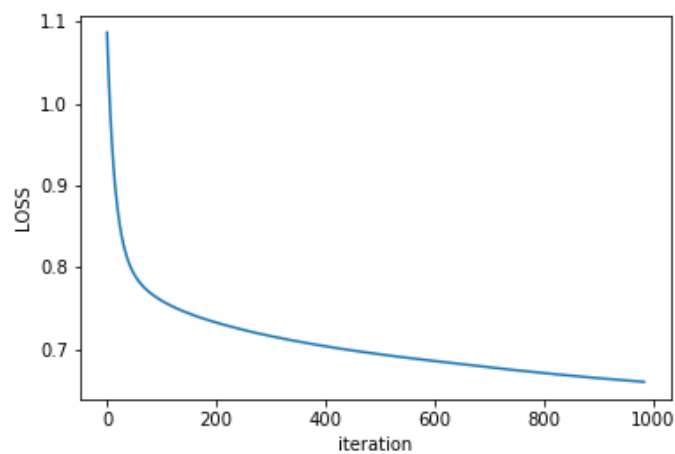
Programming Question:

3 Learning rates were tested:

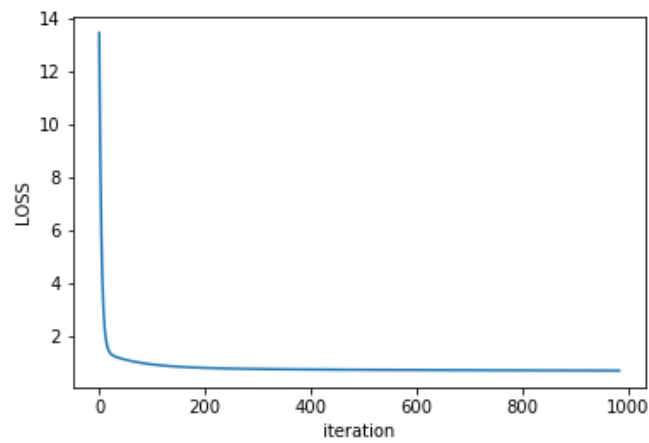
- $1e-5$ (0.00001)
- $5e-6$ (0.000005)
- $1e-6$ (0.000001)



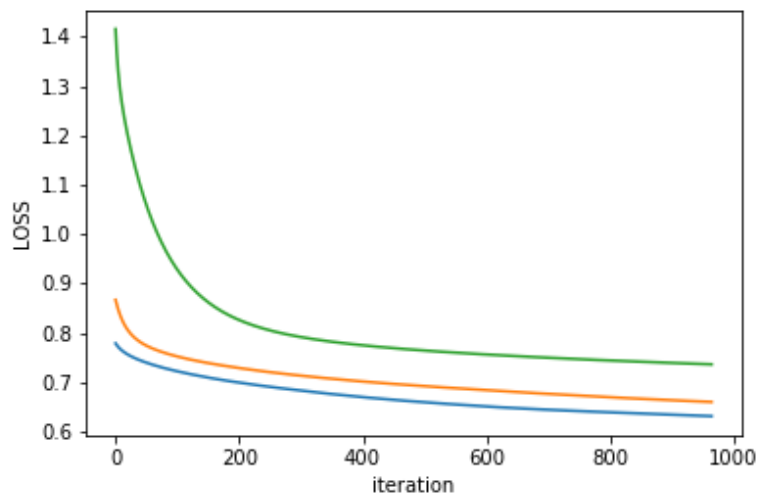
- Learning rate $1e-5$ (0.00001)
- Train set mean square error = 0.6313
- Test set mean square error = 0.7253



- Learning rate $5e-6$ (0.000005)
- Train set mean square error = 0.6601
- Test set mean square error = 0.7384



- Learning rate 1e-6 (0.000001)
- Train set mean square error = 0.7362
- Test set mean square error = 0.7853



- Comparison Between the 3 learning rates