

CS 6350

Big Data Management & Analytics

Toxic Comment Classification

Names of students in your group:

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Number of free late days used: 2

Note: You are allowed a **total** of 4 free late days for the **entire semester**. You can use at most 2 for each assignment. After that, there will be a penalty of 10% for each late day.

Please list clearly all the sources/references that you have used in this assignment.

LOG FILE

| Experiment Number | Parameters Chosen | Results |
|-------------------|---|---|
| 1 | Neural Net: Layer sizes: (9, 3) Error function: RMSE Activation function: sigmoid Learning rate: 0.1 | Train/test split: 70:30 Size of dataset: 150K Training accuracy: 96.89% Testing accuracy: 94.43% |
| 2 | Neural Net: Layer sizes: (10, 5) Error function: RMSE Activation function: ReLu Learning rate: 0.05 | Train/test split: 80:20 Size of dataset: 150K Training accuracy: 94.64% Testing accuracy: 90.34% |
| 3 | Neural Net: Layer sizes: (8, 4) Error function: RMSE Activation function: sigmoid Learning rate: 0.1 | Train/test split: 70:30 Size of dataset: 150K Training accuracy: 95.10% Testing accuracy: 93.71% |