CS 6375

ASSIGNMENT \_\_\_1 (Linear Regression)\_\_\_\_\_\_\_\_\_

Names of students in your group:

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Number of free late days used: \_\_\_0\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   
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.

Part 1:

Submission checklist

1. Python code named part1.py
2. README file.
3. A report file containing log of trials with different parameters, answer to questions, and plots
4. Log file
5. Plots directory

Part 2:

Submission checklist

1. Python code named part2.py
2. README file which lists all the libraries used.
3. A report file containing log from model prediction, answer to questions, and plots
4. Log file
5. Plots directory

References used:

1. <https://scikit-learn.org/stable/>
2. <https://scikit-learn.org/stable/modules/generated/sklearn.linear_model.SGDRegressor.html>
3. <https://www.youtube.com/watch?v=vDkJS9CGsX8>
4. <https://scikit-learn.org/stable/modules/generated/sklearn.preprocessing.StandardScaler.html>
5. <https://scikit-learn.org/stable/modules/generated/sklearn.pipeline.Pipeline.html>
6. <https://www.scikit-yb.org/en/latest/api/regressor/residuals.html>