

ML 4375 – Intro to Machine Learning

Homework: Machine Learning with Python

Worth 100 points

Instructions:

- Select one of your data sets from the R project. Create a Python notebook (Jupyter or CoLab) for this assignment with appropriate headings.
- Rework as much of your code as possible in Python for:
 - data cleaning
 - data exploration through code
 - data exploration through graphs
 - running at least 3 algorithms (try to use the same algorithms as your R project)
- Write a paragraph or more of your results analysis, comparing the algorithms in Python and their performance.
- Write a paragraph or more of your personal impressions of machine learning in R versus Python. Since this is opinion, the more opinion you share the higher your grade.

Turn in:

- Print-to-pdf of your notebook

Grading Rubric:

Step	Points
1. Perform similar data cleaning as you did in R to set up the data	10
2. Perform similar data exploration functions	30
3. Create some graphs that are descriptive of the data (at least 3)	30
4. Run as many algorithms as you can (at least 3)	40
5. Results analysis	30
6. Comparison of Python and R for machine learning	40
7. Project depth	20
Total points possible	100