Main files are in Release folder.

Libraries required:

\* pandas

\* numpy

\* scikit-learn

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LinearRegression Folder:

Data Files:

\* linear-regression-train.csv

\* linear-regression-test.csv

Code File:

\* linearRegression.py

How to Run:

\* If folder “output” does not exist in the LinearRegression folder, please create one before running the code

\* Run python linearRegression.py arg1 arg2, where arg1 refers to learning algorithm type and arg2 refers to whether normalization is applied.

* Example: python linearRegression.py 0 0

The output text files storing predicted y values will be in the “output” folder.

Additional Information:

1) DataFrame documentation: https://pandas.pydata.org/pandas-docs/stable/generated/pandas.DataFrame.html

2) Numpy reference: https://docs.scipy.org/doc/numpy-1.13.0/reference/index.html

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LogisticRegression Folder:

Data Files:

\* logistic\_regression\_train.csv

\* logistic\_regression\_test.csv

Code File:

\* logisticRegression.py

How to Run:

\* run python logisticRegression.py arg1 arg2, where arg1 refers to learning algorithm type and arg2 refers to whether normalization is applied.

* Example: python logisticRegression.py 0 0

The output text files storing predicted y values will be in the “output” folder.

Additional Information:

1. More information about the data and the classification task can be found at: <https://archive.ics.uci.edu/ml/datasets/banknote+authentication>, which is to classify whether a banknote is genuine or not given its image information.

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