11/9 pm

Model1.ipynb through model5 preliminary runs for comparison.

**model0\_compare.ipynb** – runs all features through nine different models each with no scaling, standard scaling, and minmax scaling. After each step a row is appended to a data frame displaying model, scaling and score (training data, testing data, and an average). All models ran relatively quick except for the svc model with no scaling, which is why that block of code is commented out.

Feature selection needs to be done on the top performing models.

Probably with rfe…

<https://scikit-learn.org/stable/modules/generated/sklearn.feature_selection.RFE.html>

<https://machinelearningmastery.com/rfe-feature-selection-in-python/>

or

<https://towardsdatascience.com/feature-selection-techniques-in-machine-learning-with-python-f24e7da3f36e>

<https://towardsdatascience.com/explain-your-machine-learning-with-feature-importance-774cd72abe>

<https://machinelearningmastery.com/calculate-feature-importance-with-python/>

<https://towardsdatascience.com/backward-elimination-for-feature-selection-in-machine-learning-c6a3a8f8cef4>

Classifier parameters need to be gridsearched and modified for best reults.