# ReadMe

This document serves as a read me for the folder of Fev-April.

## Documents

## Folders

### Old

This folder is used to store older codes, models and such. We do not delve further into this folder. Explore at your own risk.

### M1.0

This folder relates to our first iteration of our ML training which uses the new data received in late april. However, the benefit data is wrong and excluded for our results. Each folder includes a word doc with results (grid search, RMSE performance and graphs) and the weights of each model.

* M1.0
  + This folder uses all of our new data (all of/f/s/Classes) to predict each WS/PR/NR/SR
* M1.1
  + This folder uses our new data (all of/f/s/Classes) with PCA (MLE) to predict each WS/PR/NR/SR
* M1.2
  + This folder uses specific data (WESP-AC of/f/s/Classes) to predict each WS/PR/NR/SR
* M1.3
  + This folder uses specific data (WESP-AC of/f/s/Classes) with PCA (MLE) to predict each WS/PR/NR/SR
* Code
  + This folder contains various codes, mostly used for training.
  + train\_models
    - Basic model training, **discontinued**
  + All
    - Model training (same as above) but includes each column
  + pca\_all
    - Same as above but includes PCA (3 lines mod)
  + Reduced
    - Model training (same code as ALL) but reduced column, the column names differ but WS/NR/PR/SR
  + pca\_reduced
    - Same as above but includes PCA (3 lines mod)
  + single\_graphs\_load\_weights
    - Load the weights and models for each ML/DL algo and make graphs for each
  + single\_graphs\_scale
    - Same as above but includes a min/max scale
  + multi\_graph\_load\_weights
    - Load the weights and models for each ML/DL algo and make a combined graph
  + multi\_graph\_scale
    - Same as above but includes a min/max scale