Goal:

ANN -

Forward reg = MAPE

Inverse reg = MAE

Train test split (imp) - Not done by authors (We have to correct)

Implement above, in the form of a function… Data, test\_ratio, …,

If good enough error, model usable.

Linear regression -

Matlab -> Python

Train test split, forward regression, inverse regression

Hyperparameter tuning - Learning rate, regularization

Train on more data (to reduce overfitting)

Other ways to solve overfitting

Testing -

30, 39, 57, 118, 300, 2343wp

Forward, inverse error (train-test-split) - ANN, Linear reg, Different models - Tabulate

ANN models train on different data sizes and check how error reduces wrt data size.

Ratio = no. of eg / no of bus

**Minimum value of ratio** - converge, no much further reduction of error, if we are able to find any ratio (such as 2.4), we can publish it.

2.4 -> 1000 bus, 2400 eg sufficient