A graph of a graph

Description automatically generatedDatDA graph showing a line of a graph

Description automatically generated with medium confidence

selected\_columns = [

'wt2m', 'wt4m', 'wt6m', 'wt7m', 'wt9m', 'wt11m',

'wspd', 'wdir1', 'do8m', 'do11m']

The model does not use "time" as an input feature, but it still tries to learn from the temporal data represented by the other features

Target variables ‘do8m’, and ‘do11’ were only used for testing, NOT used for training!

“# Features (excluding 'do8m' and 'do11m')

feature\_columns = [col for col in ml\_weekly\_imputed\_df.columns if col not in ['do8m', 'do11m']]

X = ml\_weekly\_imputed\_df[feature\_columns]

# Target variables

y\_do8m = ml\_weekly\_imputed\_df['do8m']

y\_do11m = ml\_weekly\_imputed\_df['do11m']”

Temporal Split; The first 70% of the data is for training and the last 30% for testing

Evaluation Metrics for 'do8m':

R-squared: 0.80

Mean Absolute Error (MAE): 0.39

Mean Squared Error (MSE): 0.58

Root Mean Squared Error (RMSE): 0.76

Evaluation Metrics for 'do11m':

R-squared: 0.67

Mean Absolute Error (MAE): 0.63

Mean Squared Error (MSE): 1.36

Root Mean Squared Error (RMSE): 1.17

Peirce Skill Score (PSS) for 'do8m': 0.8113342898134863

Peirce Skill Score (PSS) for 'do11m': 0.7199349945828819