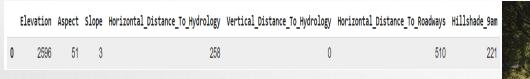
FOREST FIRE PREDICTION

Data set and task

- Data set: The training size has (581012) samples and the number of features:55
- ❖ Goal: To Predict the Forest Fire and Save the Environment
- Classifier: Random Forest

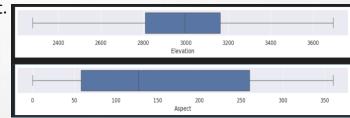


Key Experimental Result

Outliers Do Nothing Interquartile Random Forest **Trimming** Range (IQR) 94.82 94.9302 94.8544 Accuracy 0.26884 0.26559 0.26533 Mean Squared Error 0.09243 0.09116 0.09171 Mean Absolute Error 0.86163 0.8633 0.86343 R-Squared Error

ML Challenges

- Class Imbalance- The distribution of classes in a classification dataset is not uniform
- Feature Selection- To standardize or normalize the range of independent variables or features in the dataset .
- Outlier- The data points that significantly deviate from the rest of the observations in a dataset.



Future Work

- Recursive Feature Elimination (RFE)
- Principal Component Analysis (PCA)
- Also, by adding more feature in dataset like Temperature, Humidity, Windspeed, Vegetation type and more.

By Implementing the above method can Improve my Model prediction for project evaluation method.