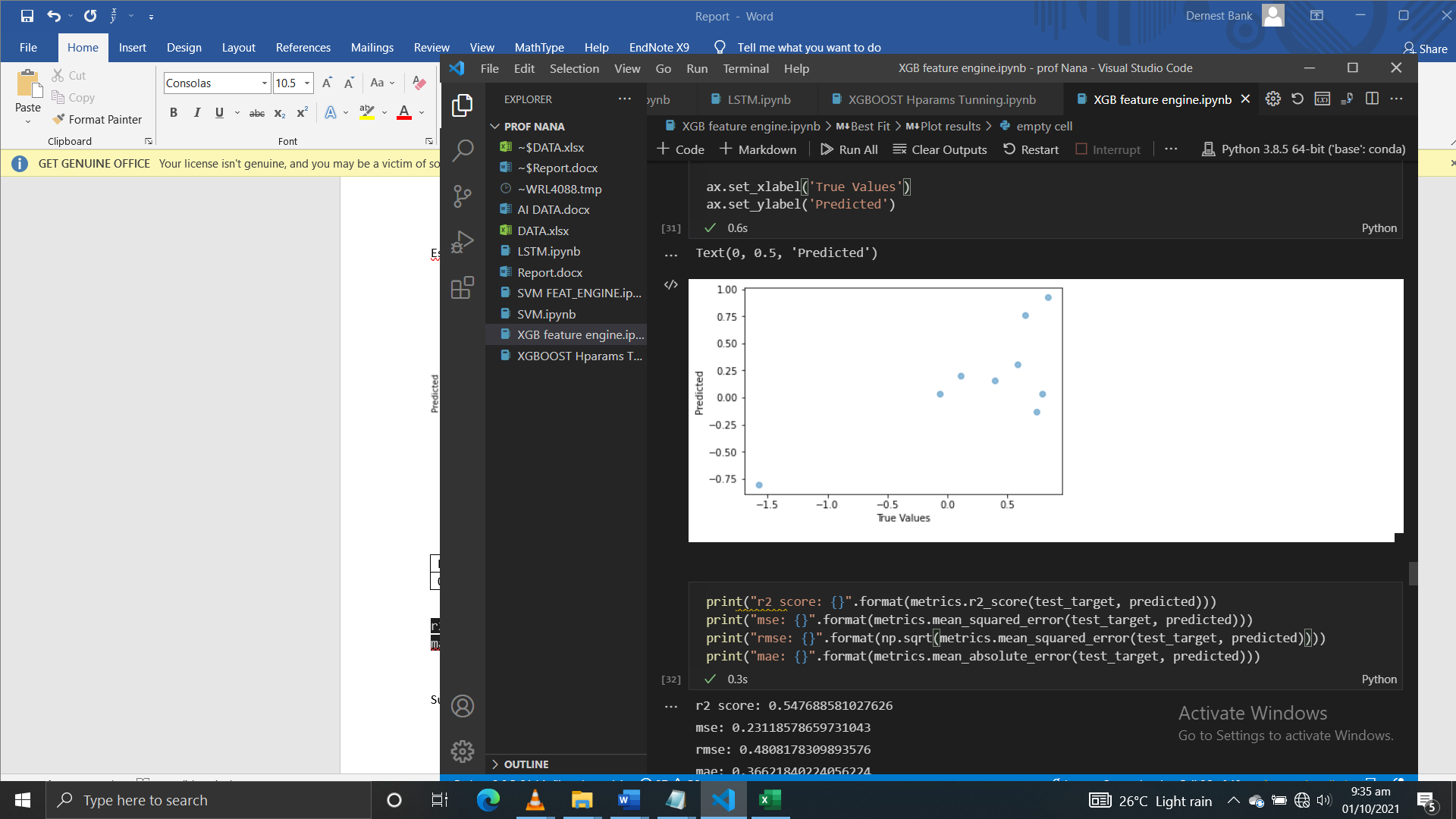
Summary of performance of Different machine learning models on DATA

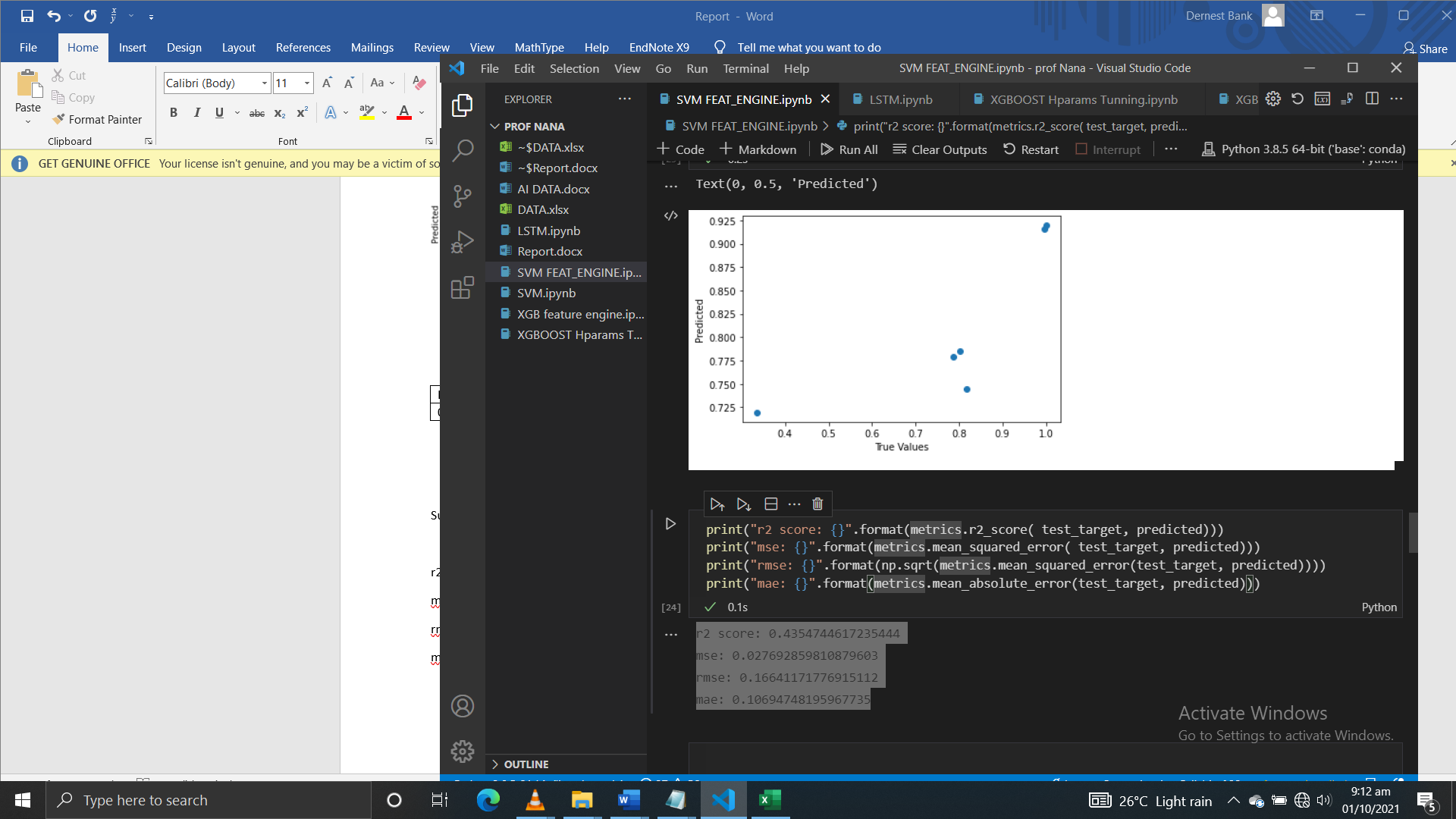
Date: 02/10/21

**Extreme Gradient Boosting (XGboost)**



|  |  |  |  |
| --- | --- | --- | --- |
| **R2 score** | **MSE** | **RMSE** | **MAE** |
| 0.5280 | 0.2412 | 5.6541 | 0.4064 |

**Support Vector Machine (Regressor)**



|  |  |  |  |
| --- | --- | --- | --- |
| **R2 score** | **MSE** | **RMSE** | **MAE** |
| 0.4355 | 0.0277 | 0.1664 | 0.1069 |

**Description**

The

where SSE is the sum of squared errors

The TSS is the total sum of squares and is equal to

The mean squared error,

The root mean squared error is the square root thus

Taking a test set about the shape of the input data, is predicted actual value

**Recommendations**

* More data about 500+ data points
* Feature engineering (PCAs) and feature selection
* More hyper-parameter tuning if available
* Exploration of different models( ANN, LSTM…)
* More criteria for evaluating results