ML algorithms

Regression : Linear regression

Classification: Logistic regression

Decision Tree

Naive bayes

KNN

Support Vector Machine

Ensemble methods : Bagging(Random forest) and Boosting

Cluster algorithms: K-means

Hierarchical

Recommendation engine

Monday : we have python oops

End to end ML flask streamlit

Learning algorithms is different

Evaluation of algorithms

Supervised and unsupervised

Supervised : Regression and Classification

Regression: MSE

RMSE

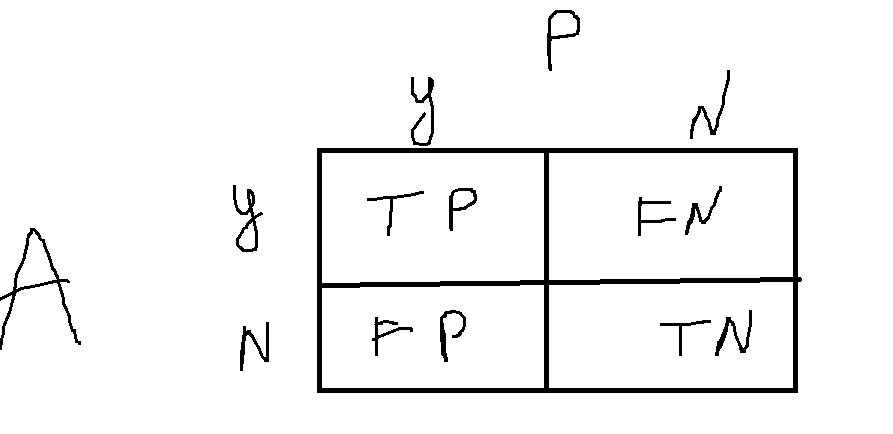
MAE

RSE

R-sq

adjusted R-sq

MSE RMSE MAE MAPE



| y | Y\_predictions | TP/TN/FP/FN |
| --- | --- | --- |
| Yes | No | FN |
| Yes | Yes | TP |
| Yes | Yes | TP |
| No | Yes | FP |
| No | No | TN |
| Yes | No | FN |

P

|  | Yes | No |
| --- | --- | --- |
| Yes | TP=2 | FN=2 |
| No | FP=1 | TN=1 |

| y | Y\_predictions | TP/TN/FP/FN |
| --- | --- | --- |
| Yes | No |  |
| Yes | NO |  |
| Yes | No |  |
| No | Yes | FP |
| No | Yes |  |
| NO | Yes |  |

| **Classes** | **Yes** | **No** | **Total** | **Recognition** |
| --- | --- | --- | --- | --- |
| Yes  No | 90  140 | 210  9560 | 300  9700 | 30.00%  98.56% |
| Total | 230 | 9770 | 10,000 | 96.40 |

Precision recall accuracy