Regression

Neural networks(regression):-MultilayerPerceptron:

For Brightness:-

Results for brightness prediction:

Root Mean Squared Error (RMSE): 15.382103073940078

R2 Score: 0.9910166605836039

Results for confidence prediction:

Root Mean Squared Error (RMSE): 16.35904110918971

R2 Score: 0.82095797848786

Classification

Binary Classification (wildfire):

SVM

o AUC: 0.8325664535906806

Accuracy: 0.7775320432269415

• Logistic Regression:

o AUC: 0.8269593885213543

o Accuracy: 0.7817039457150038

Random Forest Classifier:

Random Forest Accuracy = 0.9496784565916399

GBT Classifier:

GBT Accuracy = 0.9306346705449845

MultilayerPerceptron:-(classification)

Root Mean Squared Error (RMSE): 0.01010642515563663

R2: 0.9995679150261572

Accuracy: 0.9998978601705735 F1 Score: 0.9998978575948305