Rainfall Forecasting Report

AI Assistant

June 6, 2025

1 Introduction

This report presents the results of rainfall forecasting models.

2 Results

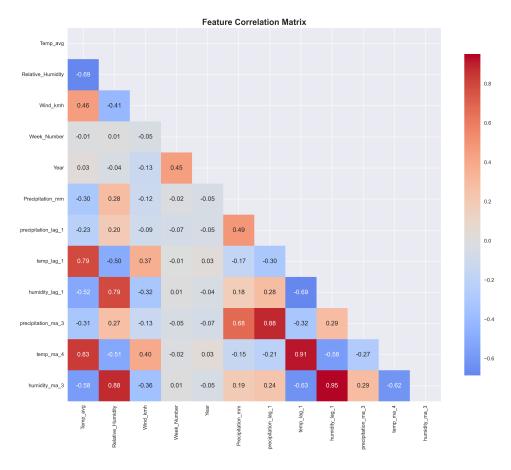


Figure 1: Correlation Matrix

3 Conclusion

These results demonstrate the performance of various rainfall forecasting models.

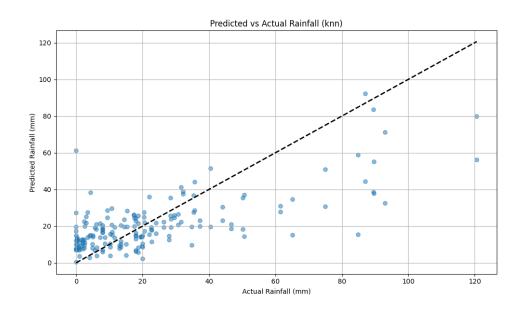


Figure 2: Knn Pred Vs Actual

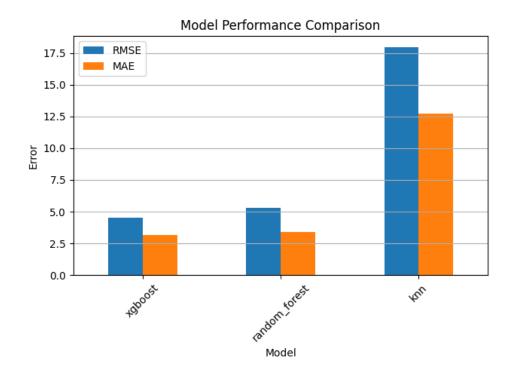


Figure 3: Model Comparison

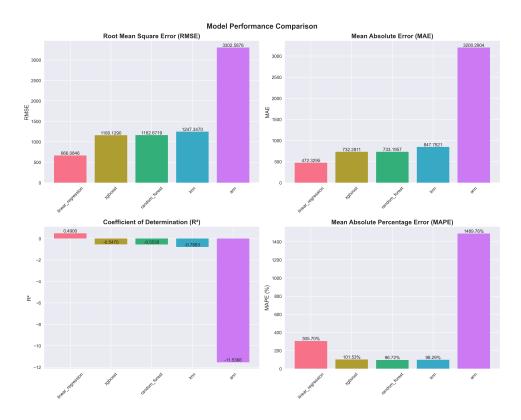


Figure 4: Model Performance Comparison

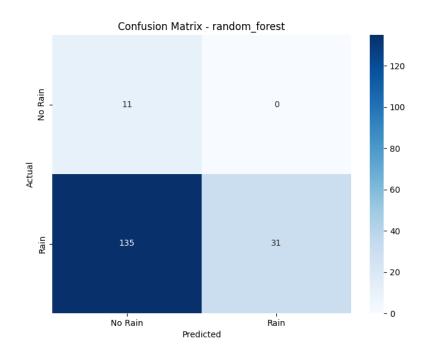


Figure 5: Random Forest Confusion Matrix

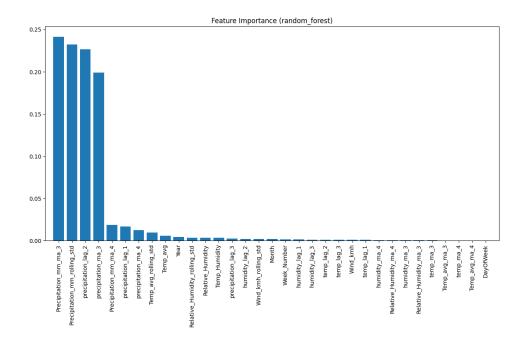


Figure 6: Random Forest Feature Importance

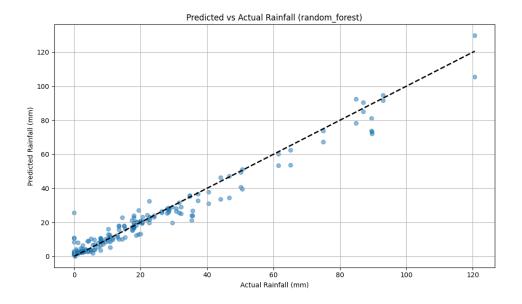


Figure 7: Random Forest Pred Vs Actual

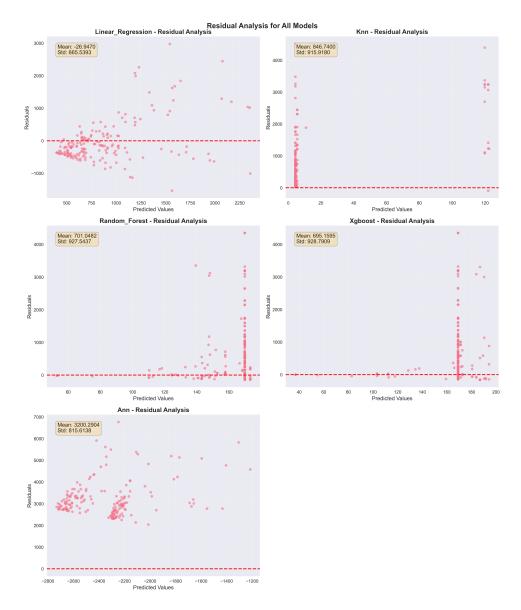


Figure 8: Residual Analysis

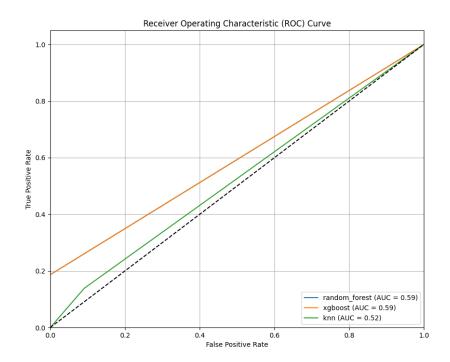


Figure 9: Roc Curve Comparison

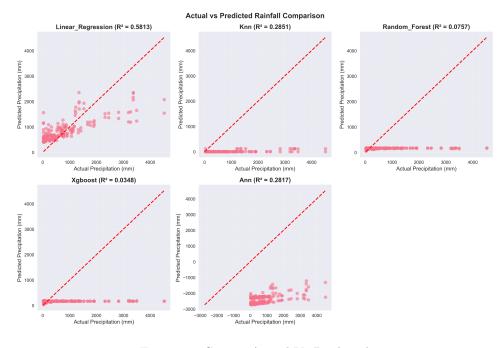


Figure 10: Scatter Actual Vs Predicted

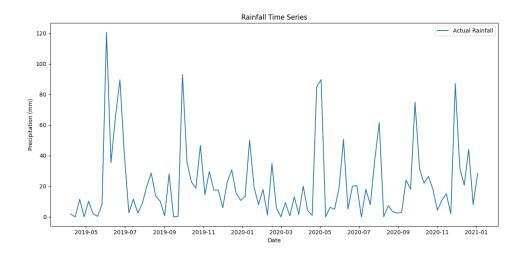


Figure 11: Time Series

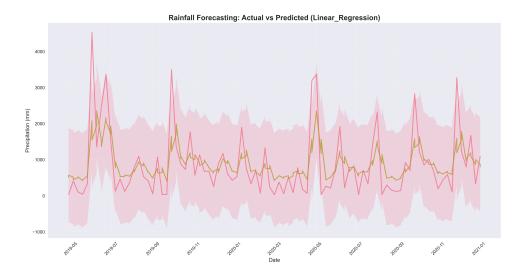


Figure 12: Time Series Linear Regression

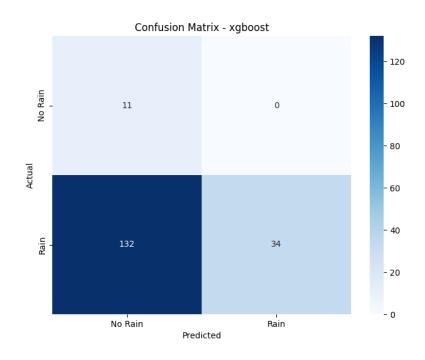


Figure 13: Xgboost Confusion Matrix

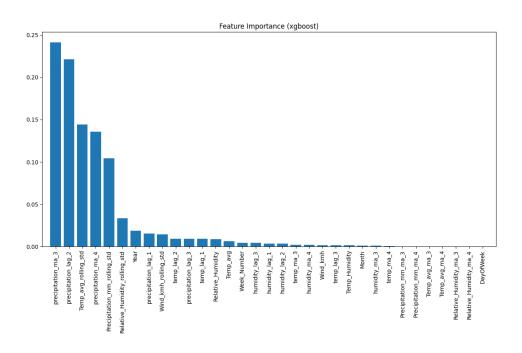


Figure 14: Xgboost Feature Importance

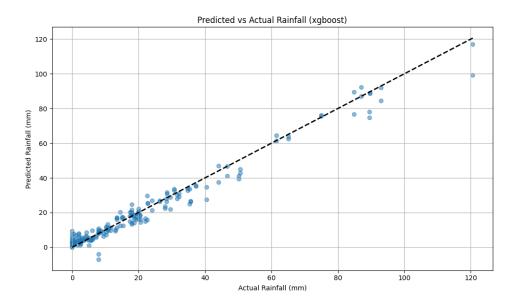


Figure 15: Xgboost Pred Vs Actual