

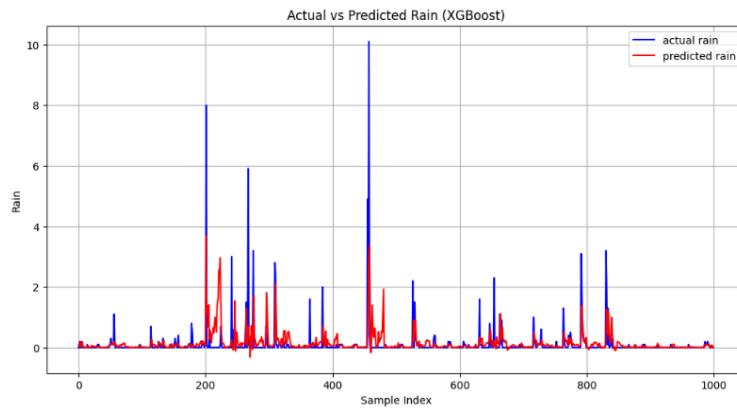
SUMMER 2026

APPENDIX 3

Graph of predicted value against actual value of hourly rainfall in preliminary testing

Figure 6

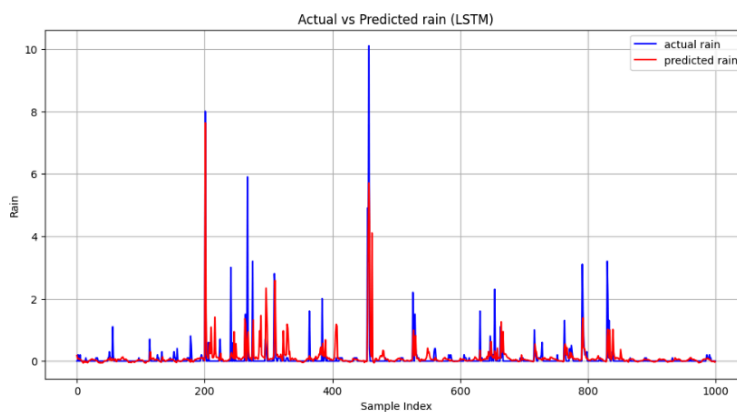
1000 hours of actual vs. predicted rainfall by tuned XGBoost model



Note: Prediction results from XGBoost model. Blue lines indicate true rain values and red lines indicate the model's predicted values. Greater overlap between lines indicate higher model accuracy.

Figure 7

1000 hours of actual vs. predicted rainfall by LSTM model

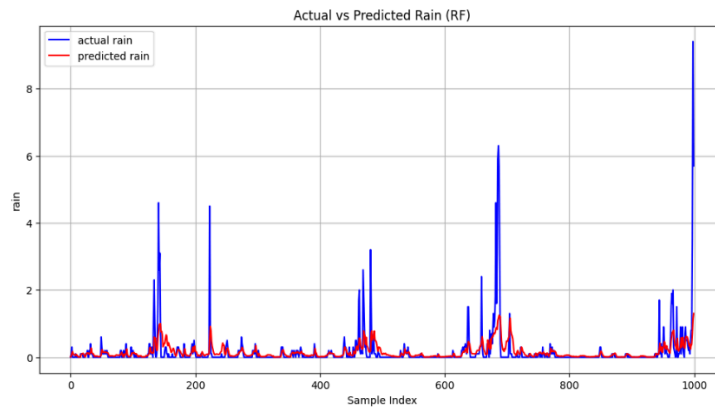


Note: Prediction results from LSTM model. Blue lines indicate true rain values and red lines indicate the model's predicted values. Greater overlap between lines indicate higher model accuracy.

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Figure 8

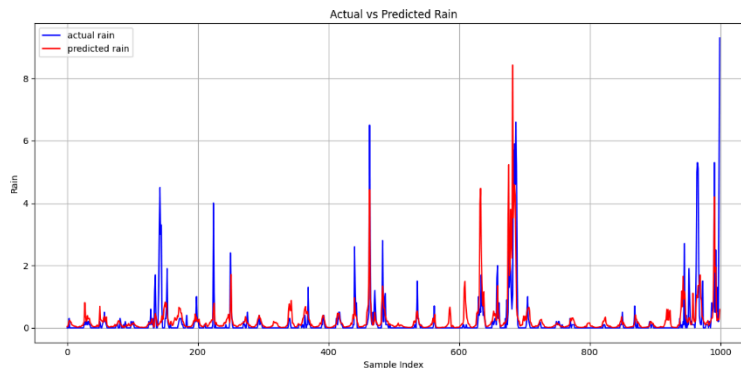
1000 hours of actual vs. predicted rainfall by Random Forests model



Note: Prediction results from Random Forests model. Blue lines indicate true rain values and red lines indicate the model's predicted values. Greater overlap between lines indicate higher model accuracy.

Figure 9

1000 hours of actual vs. predicted rainfall by GLM model



Note: Prediction results from GLM model. Blue lines indicate true rain values and red lines indicate the model's predicted values. Greater overlap between lines indicate higher model accuracy.