rain.One

Predicting the Rain Andrew Auyeung

The Mission



Existing Approaches



Forecasting



Reliant on Many Sources of Data

The Solution





Reliant on Many Sources of Data



The Data

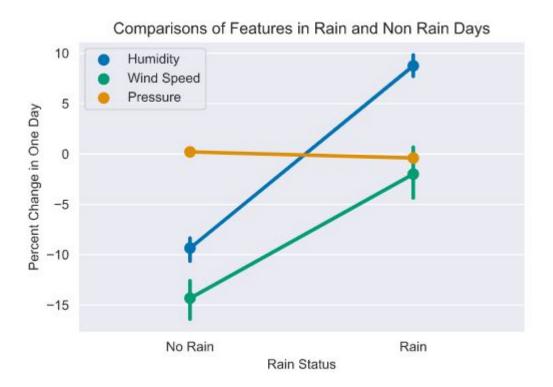
Daily Summaries from 1990 to 2020 from

Newark Liberty International Airport Weather Station

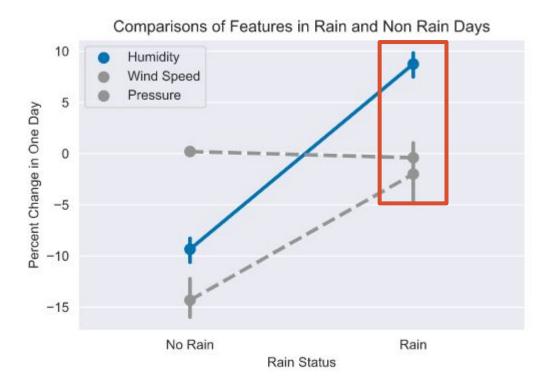






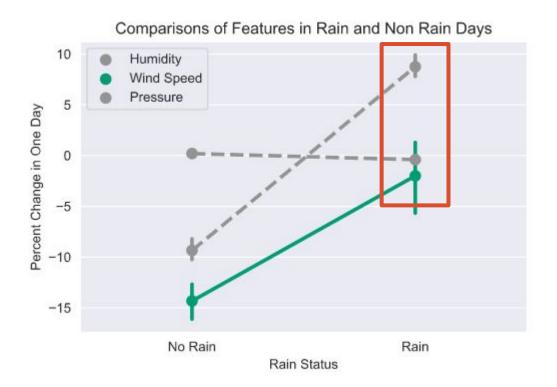


Humidity



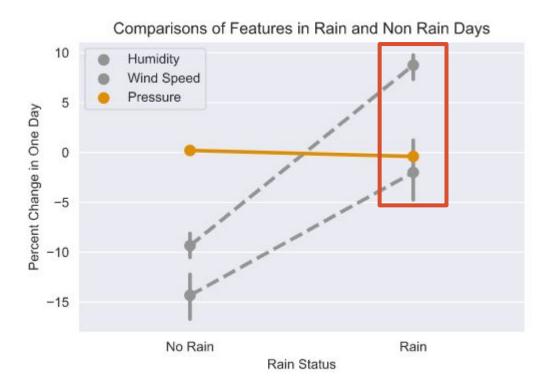
Humidity

Wind Speed



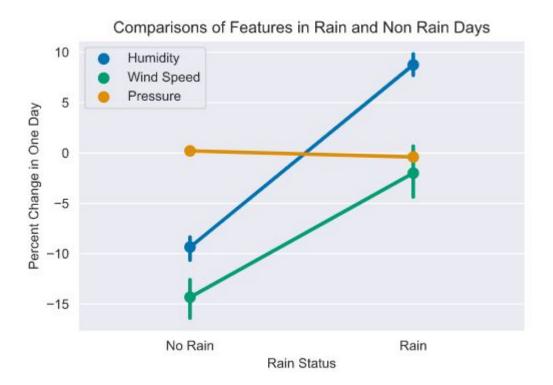
Humidity

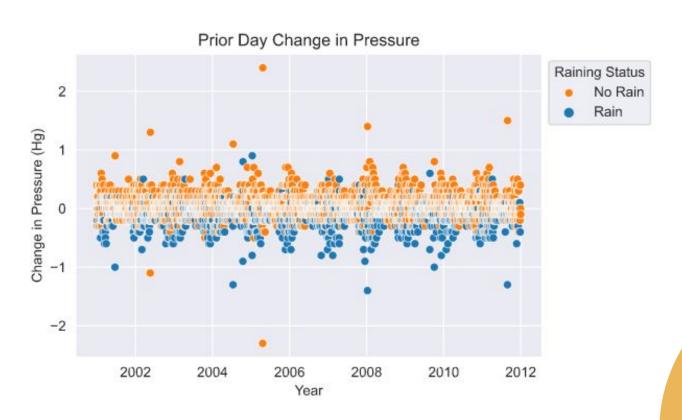
Wind Speed

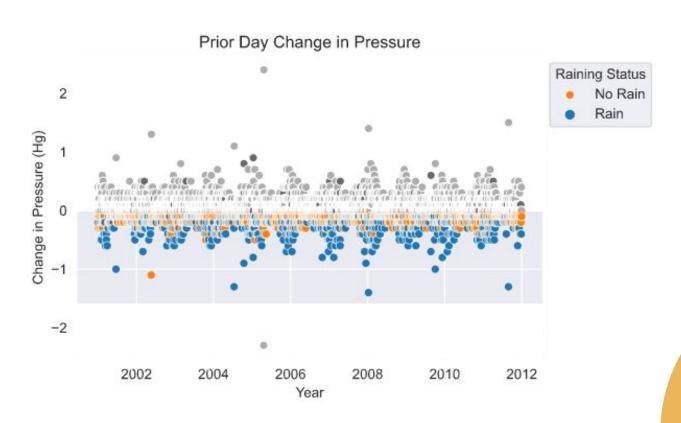


Humidity

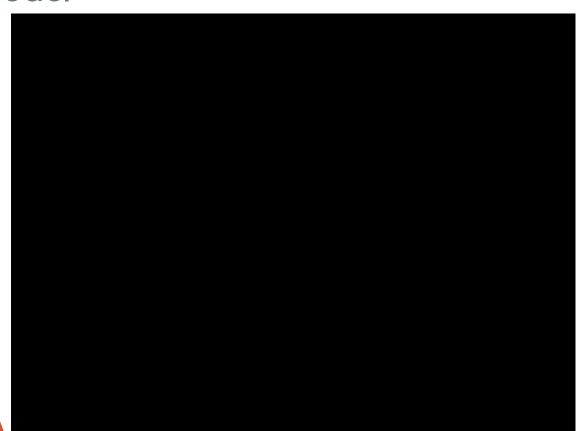
Wind Speed







The Model

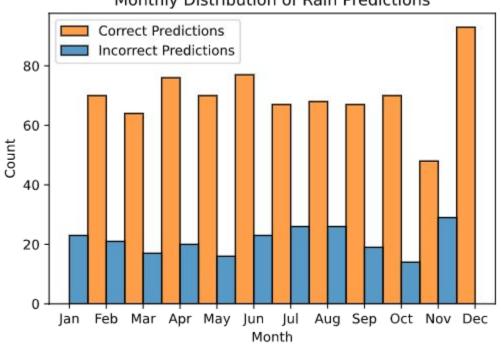


Questions?

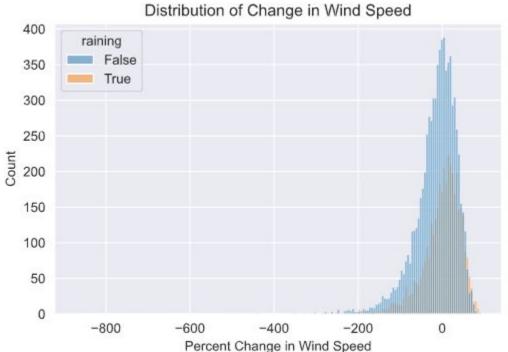
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Appendix-Distribution of Predictions



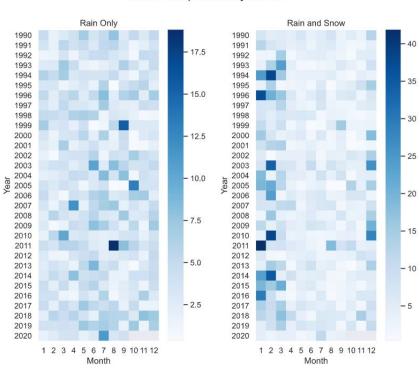


Appendix - Distribution of Wind Speed

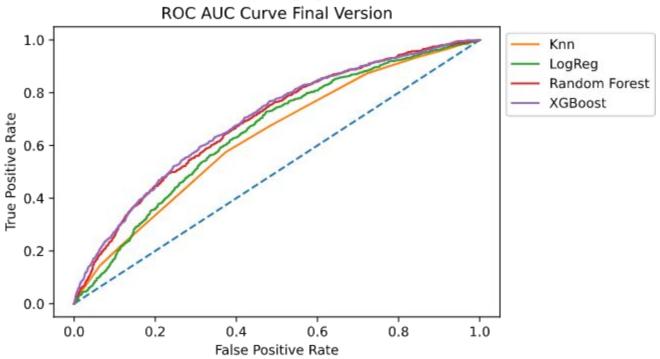


Appendix - Rain by Month

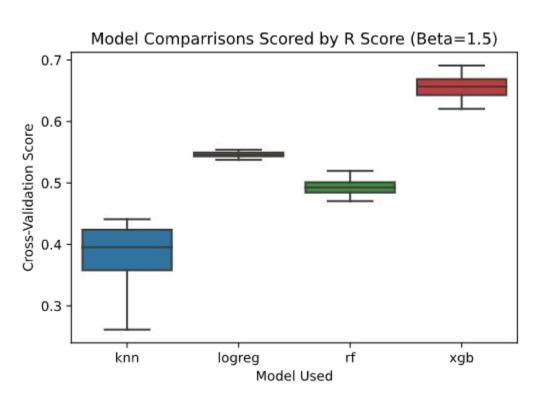
Total Precipitation by Month



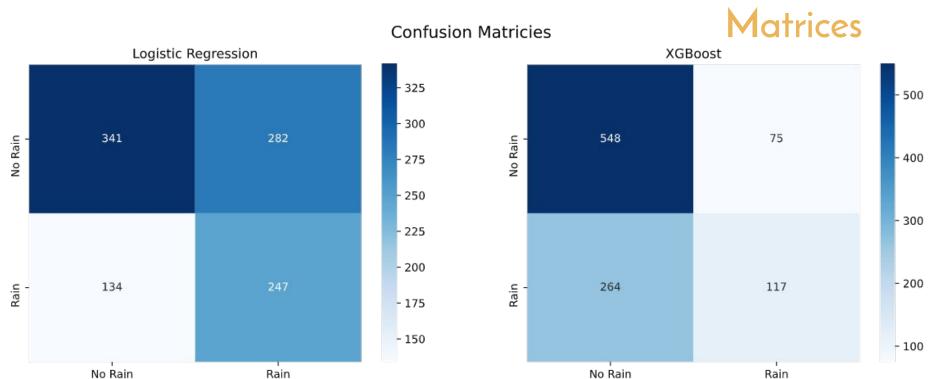
Appendix - ROC AUC Curve



Appendix- R Beta Scoring



Appendix- Confusion



Appendix - Voting Confusion

Matrix

