■■ AUSWeather Prediction Project — Executive Summary

Goal: Forecast daily rain occurrence in Australia using meteorological data from 2010–2017.

Dataset: Australian Bureau of Meteorology — 145,000 records, 23 attributes.

Approach: Data Cleaning, Correlation Heatmaps, Regression and Classification Models (RandomForest, Logistic Regression).

Results: Random Forest Classifier reached 86% accuracy with Humidity3pm, Rainfall, and Cloud9am as top predictors.

Impact: Showcased supervised learning, feature engineering, and weather pattern analytics.