Rain in Australia Prediction Using Classification MVP

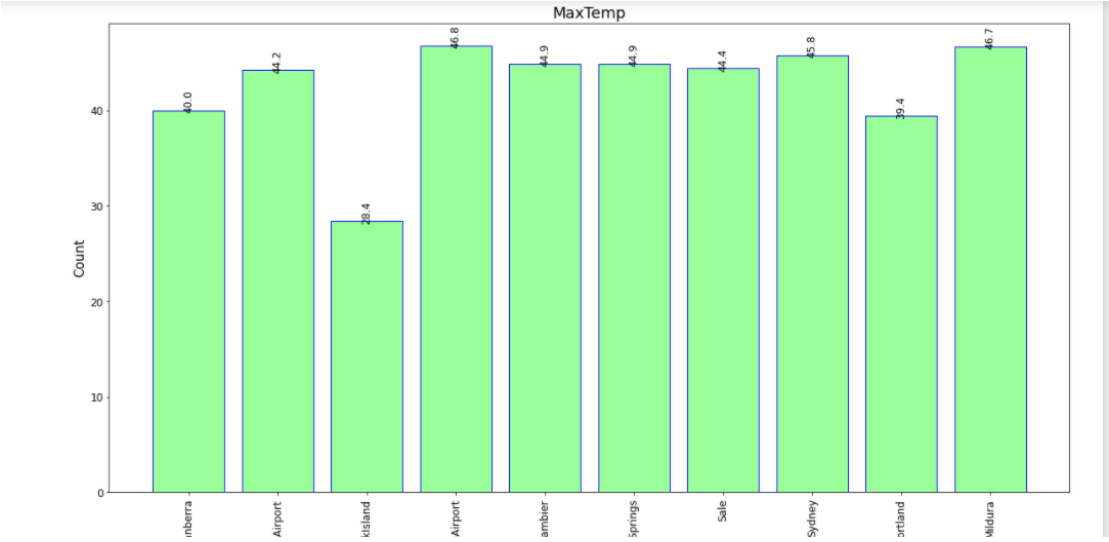
Objective

The objective of this project is to predict Rain in Australia , by using Classification as a part of machine learning.

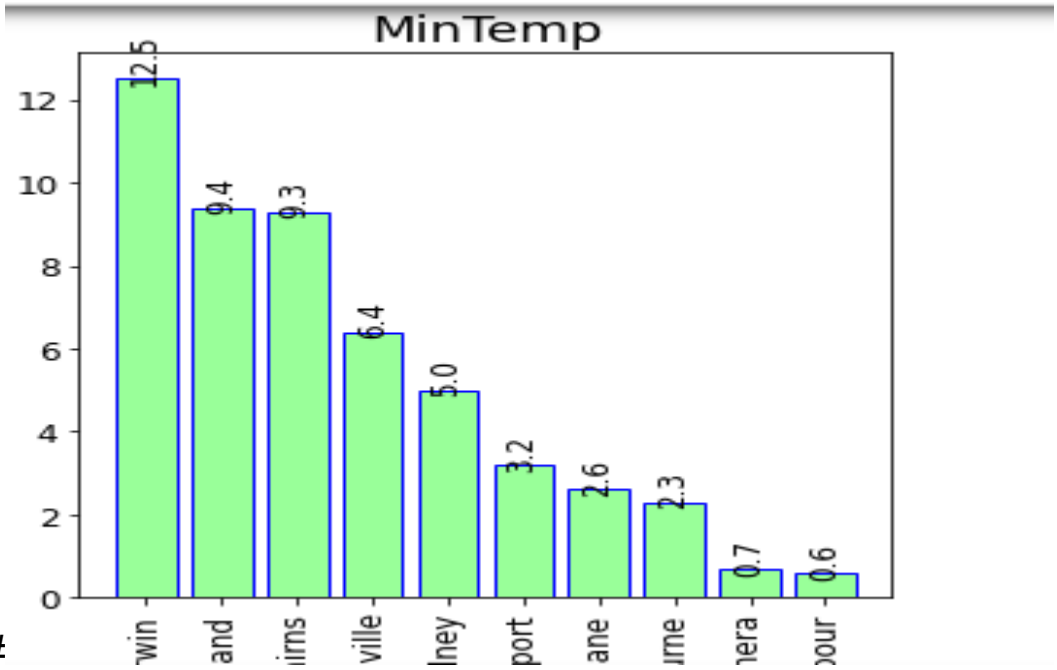
Preprocessing

- We obtained Rain in Australia data from kaggle https://www.kaggle.com. Which contains 145460 rows and 23 columns.
- Perform EDA:
    - Cleaning.
    - Visualization.
- Building models for classification

Findings



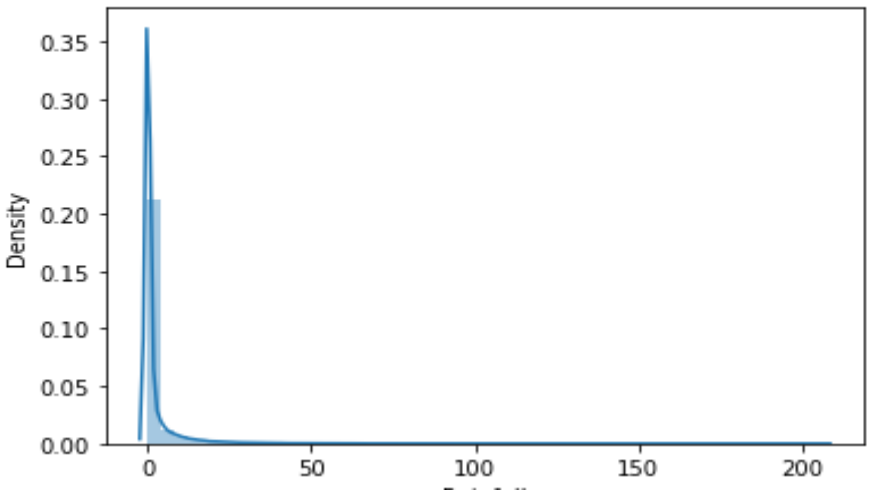
the country with the highest degree : MelbourneAirport 46.8 -



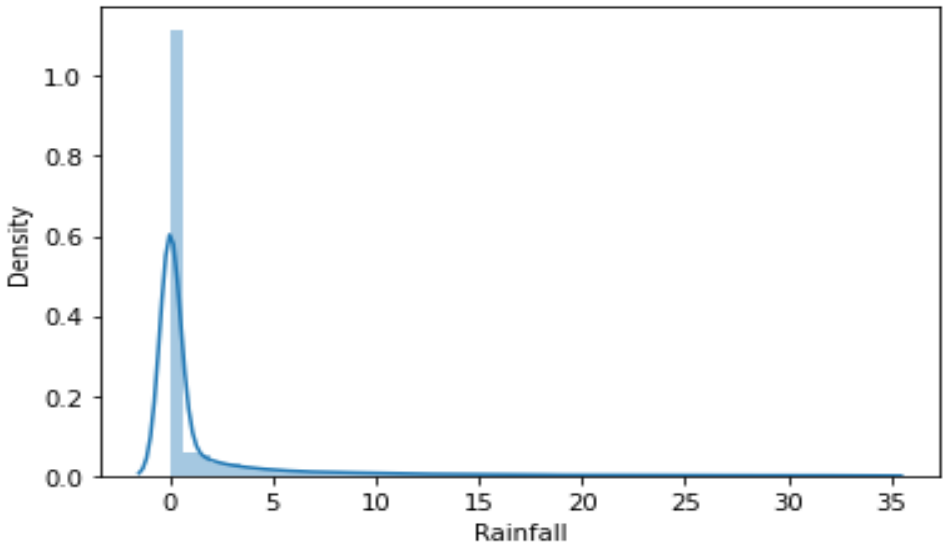
the country with the lowest degree : coffsharbour 0.6

outliers

38]: <AxesSubplot:xlabel='Rainfall', ylabel='Density'>



]: <AxesSubplot:xlabel='Rainfall', ylabel='Density'>



Models	Training score	validation score
Logistic Regression	0.850	0.853
K-Nearest Neighbor	0.902	0.839

As we see KNN model gives us the highest score as a next step, we will build more models.