This readme document briefly explains these projects I have done, along with the associated documents.

Australia Election 2019

This project involved thorough sentiment analysis of messages from Twitter regarding the 2019 Australian Election.

This project was completed using PowerBI and the Python programming language. The analysis parsed through the data using text mining functions and Python packages, and rendered a scatterplot and pie charts demonstrating the Polarity (Positivity vs. Negativity) of the social media messages, and the Subjectivity (Personal Opinion vs. Factual Information) housed within the messages. A Word Cloud, highlighting the prominent terms that were frequently used in the messages, is also available.

PowerBI was used to visualize where the messages were published. Using geocode information, the locations of each Tweet were displayed, along with the names of the locations. The corresponding ".pdf" and ".pbix" files are enclosed.

Credit Card Defaulting In Taiwan

This project was done using Python. Specifically, I used machine learning based classification algorithms to study the credit card crisis of Taiwan. The primary purpose of this paper was to determine which variables of the given dataset were the strongest predictors of default payment. The tests and models that were used to determine these variables were Random Forest Classification, Naive Bayes and Gradient Boosting. The corresponding ".pdf" file is enclosed.

Mobile Popularity Prediction Project

This project deals with predicting the popularity of mobile applications. Python was used to perform machine learning with the random forest classification mechanism, and PowerBI was used to create basic visualizations about the data, along with a table displaying the data.

The corresponding ".pdf" and ".pbix" files are enclosed.