Report No 2 -- Final Report (60% of 100 marks)

Your final report should be seven pages long. However, you will be allowed an unlimited number of additional pages for references and appendices. This needs to contain at least the following:

1. Explain the problem and motivation. You can borrow some material from your proposal if you have not changed your plan.

2. Explain what data you explored, where it came from, and how you understand it.

3. Explain what you did for preprocess with the data. You should present the ideas in words instead of cut- paste your codes.

4. Explain what method you used to analysis the data.

5. How do you interpret you result.

6. Discuss limitations of your approach.

7. Discuss what you would do differently in the future.

**Introduction**

Avocado, a bright green fruit with a large pit and dark leathery skin, has become a fashion among millennials in America. Avocados featured in its unique flavor, rich texture, and high percentage of healthy fat, which is an ideal food for the healthy diet. However, the average price for avocados is not cheap, which made those millennials unable to achieve their “Avocado Freedom” dream. In addition, as an applicant in American master and a fan of avocado, it is of significant attraction for me to conduct the explorative data analysis of avocados, hoping to find out some hidden patterns, like seasonal patterns or cyclical patterns. Furthermore, related factors were also evaluated to indicate the influence on the avocados’ price, which could help these millennials to find the cheaper avocados in a smart way.

**Methods**

**Collection of the avocado dataset**

The dataset was downloaded from Kaggle (*Avocado Prices (2020) | Kaggle*, 2020), which contains the data from 4 January 2015 to 17 May 2020. Specifically, the dataset directly scanned from retailers’ cash registers based on actual retail sales of Hass avocados.

图表

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Methods & Results

Collection of datasets and preprocessing

Discussion

图表

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描述已自动生成表格

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图表, 折线图

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