Econ 493 Term paper proposal

Econ 495. Tie Ma. Student number 1537905.

1. The data description.

The data I am planning to work on for my term paper is the seasonally adjusted Canadian monthly home sales data from January 1, 2007 to January 1, 2023. The data was collected and processed by the Canadian Real Estate Association (CREA).

The data can be accessed from the following link. (https://stats.crea.ca/en-CA/)

2.some summary of the data

```
setwd("~/SynologyDrive/nn/ECON-493-forcasting-economy")
```

2.1 input the data

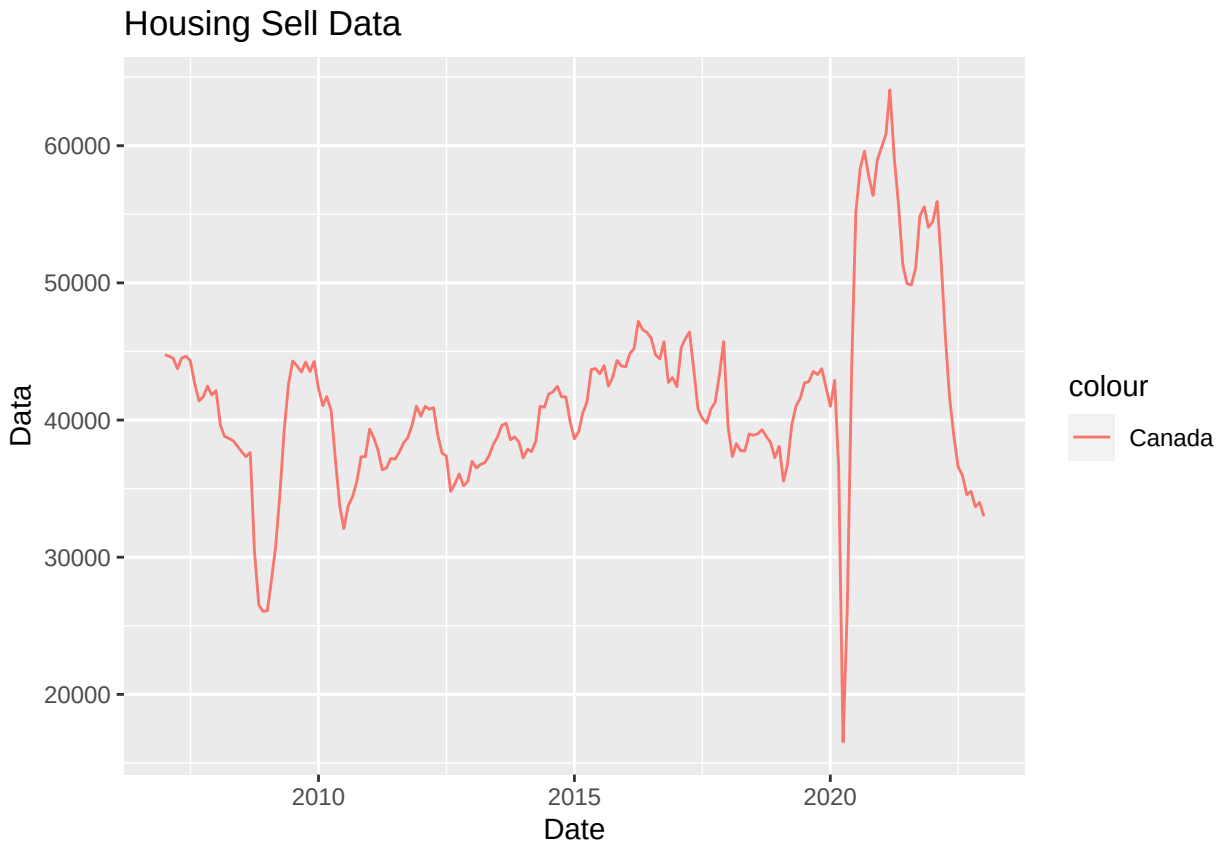
```
The_housing_sell_data <- read_excel("/Users/tie/SynologyDrive/nn/ECON-493-forcasting-economy/excel/The_
    col_types = c("date", "numeric", "numeric",
        "skip", "skip"))
```

2.2 draw the graphy

```
The_housing_sell_data.raw <- as.data.frame(The_housing_sell_data)
head(The_housing_sell_data.raw, 5)
```

```
##         Date Canada 10-year average
## 1 2007-01-01  44759        33136.45
## 2 2007-02-01  44646        33254.82
## 3 2007-03-01  44494        33393.78
## 4 2007-04-01  43742        33532.91
## 5 2007-05-01  44522        33691.76
```

```
ggplot(The_housing_sell_data.raw, aes(x = Date)) +
  geom_line(aes(y = Canada, color = "Canada")) +
labs(title = "Housing Sell Data", x = "Date", y = "Data")
```



2.3 the summary of the data

```
describe(The_housing_sell_data.raw$Canada)
```

```
##    vars   n     mean      sd median trimmed     mad   min   max range skew
## X1    1 193 41372.11 6746.72  40802   40809 4636.09 16530 64061 47531 0.62
##    kurtosis     se
## X1      2.1 485.64
```