**ENGG233 Final Project**

**Calgary Weather Analyzer**

**Milestone 2**

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**Lecture: Lecture #03**

**TA Group: Yellow**

**1- Get Minimum Temperature of 1990-2019**

Text

Description automatically generated

According to provided Calgary weather data the minimum temperature between

years 1990 and 2019 was -15.9 degrees Celsius.

**2- Get Maximum Temperature of 1990-2019**

Text

Description automatically generated

According to provided Calgary weather data the maximum temperature between

years 1990 and 2019 was 23.5 degrees Celsius.

**3- Get Minimum Temperature of 1990-2019 Annually**

Text

Description automatically generated

The output visualises the minimum temperature every year from 1990 to 2019. The output data names the year on the first column and the corresponding minimum temperature of the year in the second column (e.g. 1995 -15.77)

**4- Get Maximum Temperature of 1990-2019 Annually**

Text

Description automatically generated

The output visualises the maximum temperature every year from 1990 to 2019. The output data names the year on the first column and the corresponding maximum temperature of the year in the second column (e.g. 1995 22.92)

**5- Get Average Snowfall between 1990-2019 Annually**

Text

Description automatically generated

The output visualises the average snowfall every year from 1990 to 2019. The output data names the year on the first column and the corresponding average snowfall data of the year in the second column (e.g. 1995 10.8183333333333)

**6- Get Average Temperature between 1990-2019 Annually**

Text

Description automatically generated

The output visualises the average temperature every year from 1990 to 2019. The output data names the year on the first column and the corresponding average temperature of the year in the second column (e.g. 1995 3.86583333333332)

**7- LineChart Minimum Temperature of 1990-2019 Annually**

Chart

Description automatically generated

According to the Calgary weather analysis done on the given data in (CalgaryWeather.csv) file.

The visualization shows the annual minimum temperatures from 1990 to 2019 as a line graph.

On an average we can see the annual minimum temperature increases over time. The lowest temperature in the 30 years was -15.2 degrees in 1992.

**8- LineChart Maximum Temperature of 1990-2019 Annually**

Chart, line chart

Description automatically generated

According to the Calgary weather analysis done on the given data in (CalgaryWeather.csv) file.

The visualization shows the annual maximum temperatures from 1990 to 2019 as a line graph.

On an average we can see the annual maximum temperature fluctuates highly over time. The lowest maximum temperature in the 30 years was 22.85 degrees in 1996, and the highest maximum temperature was 23.5 degrees in 2019.

**9- BarChart Average Snowfall between 1990-2019 Annually**

Chart, bar chart, histogram

Description automatically generated

According to the Calgary weather analysis done on the given data in (CalgaryWeather.csv) file.

The visualization shows the annual average snowfall from 1990 to 2019 as a bar chart graph.

On an average we can see the average snowfall is always greater than 10cm. The average snowfall were lowest in 2006 at 10.2166cm.

**10- BarChart Average Temperature between 1990-2019 Annually**

**Chart, bar chart, histogram

Description automatically generated**

According to the Calgary weather analysis done on the given data in (CalgaryWeather.csv) file.

The visualization shows the annual average temperature from 1990 to 2019 as a bar chart graph. On an average we can see the annual average is always greater than 3 degrees . The average temperature were lowest shows a gradual increase from 1990 to 2018. And in 2019 the temperature average suddenly increases to 5.5005 degrees.