# *Rainfall Dataset*

## *Datasets inspect*

*Table

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* *The rainfall dataset date is range from 2015-01-01 to 2021-02-28*
* *The rainfall amount with mean 1.51 millimetres. The rainfall amount is range from 54 to 0 (max and min)*
* *The median is less than mean, the dataset is skewed to the right, most of data spread on the right side.*

## *Rainfall dataset Association*

### *Day of week*

*Text

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* *The total of rainfall amount on Saturday is largest, while rainfall amount on Wednesday is lowest.*

*Chart, pie chart

Description automatically generated*

Error bar:

*Chart, bar chart

Description automatically generated*

* *If check the error, the difference between Saturday and other day of week is significant.*
* *The days of week (except Saturday) are not significant.*

### Month index

*Chart, bar chart

Description automatically generated*

* *The Feb and Mar are significant from rest of month.*

## *Year index*

*Chart, application, pie chart

Description automatically generated*

* *Rainfall in 2020 was above average across Greater Melbourne.*
* *To be specific, check each month in 2020*

*Chart, bar chart

Description automatically generated*

* *It was particularly wet in*[*April*](http://www.bom.gov.au/climate/current/month/vic/archive/202004.melbourne.shtml)*; averaged across all reporting sites in Greater Melbourne, it was the wettest April since 1974.*

*Table

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## *Rainfall values analyse*

*Graphical user interface, chart

Description automatically generated with medium confidence*

*Chart

Description automatically generated*

* *The data has extremely outliers*
* *Most of days in Melbourne are dry.*

*Chart

Description automatically generated*

* *There are a lot of outliers in rainfall dataset, resulting in missing fit the rainfall trend.*
* *The R square is relatively low. The KNN fit rainfall best among these five models*

# *Pedestrians Prediction in Southern Cross Station and VIC point station*

## Datasets inspect

Table

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Graphical user interface, chart, scatter chart

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