Université de Montpellier

Challenge2020/2021

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2020 — 2021

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0.1 Introduction

The goal of our project is to predict the number of vellos that will between 00H01 and 09H on April 2nd at the cyclcle track at the tram stop

Albert streetcar stop first we will work on real data that are recorded

which are recorded every day since March 2020 : :

https ://docs.google.com/spreadsheets/d/e/2PACX-1vQVtdpXMHB4g9h75a0jw8C *AIThodhVHNLxlZYm8fuoWj/p.*

0.2 Prediction

After importing the data we saw that the first 2 lines were empty and

rows were empty and NAN on the last two columns.

columns. Therefore, in order to carry out our work we have

deleted the last two rows and the first two rows and we have

replace the NAN that

the data by zeros and then we obtained a table with 3 columns

table with 3 columns : in the first column we have DateTalent, the second

the second one Bikes since January 1st / Grand total and the last Bikes today / Today

last Bikes today / Today's total. What interests us more

for this project is the last column of the table (Bikes today / Today's

Today's total)

our dataframe starts since March 12th. During this time,

our prediction work consists then in working on the

data between 00H01 and 9H.before starting our prediction

we will delete the data of the day between 09H and 23H59.

To carry out our work we will use the

method of prediction ARIMA seen in course temporal series.

This method gives us the number of bicycles that pass every day between between 00H01 and 9H.This time there are very small values due to small values due to firewalls.

So the number of bikes expected on 02/April is 240.