Project Report Template

INTELLIGENT ADMISSIONS:THE FUTURE OF UNIVERSITY DECISION MAKING WITH MACHINE LEARNING

1.Introduction

1.1 Overview

University admission is the process by which students are selected to attend a college or university .the process typically involves several steps,including submitting an application ,taking entrance exams,and participaying in interviews or other evaluations.

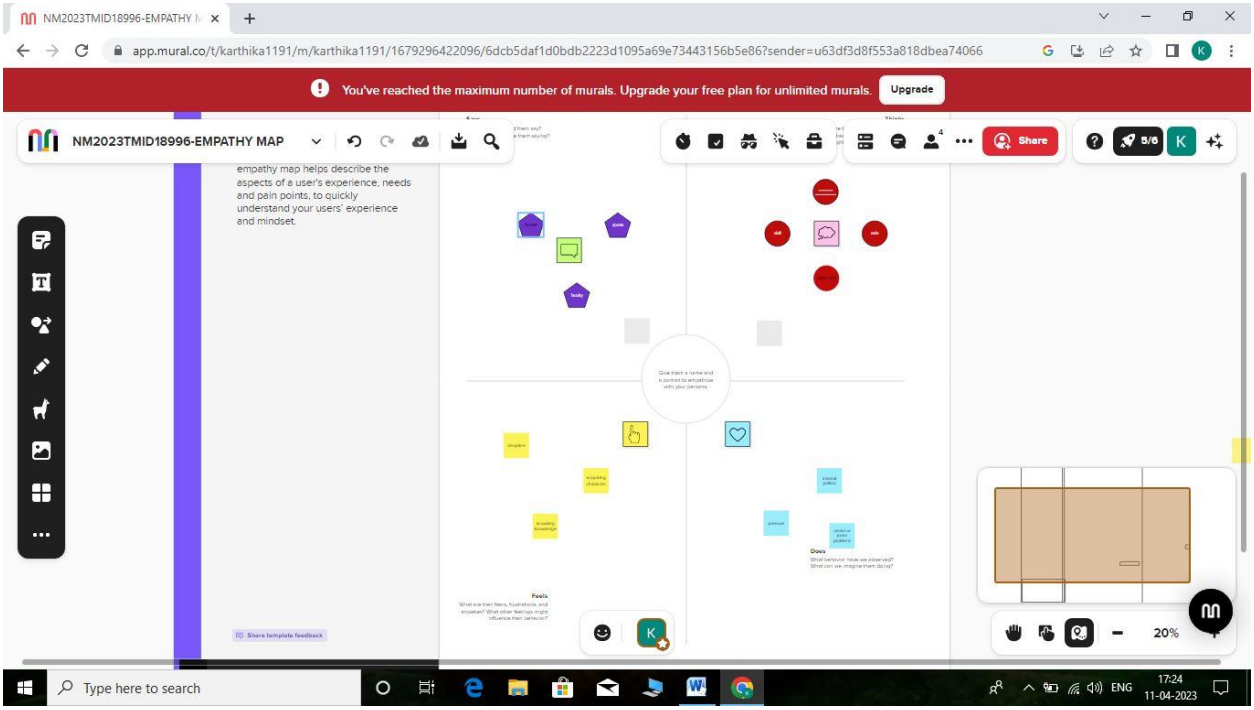
Students are often worried about their chances of admission in university. The university admission process for students can be demanding.but by being well-informedd,prepared,and organized,students can increase their chances of being admitted to the university of their choice.

1.2 Purpose

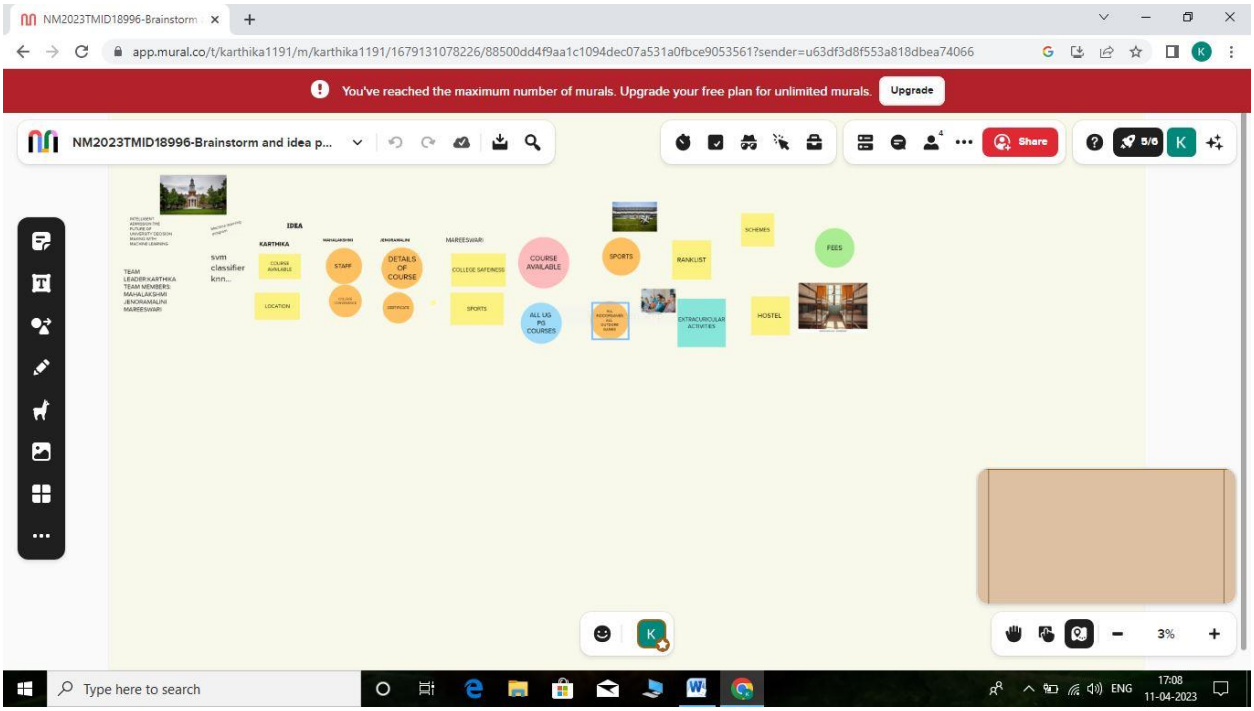
The aim of the project is to help students in shortlisting universities with their profiles.machine learning algorithms are then used to train a model on this data,which can be used to predict the chances of future applicants being admitted.with this project, students can make more informed decisions about which universities to apply to, and universities can make more efficient use of their resources by focusing on the most promising applicants.

2.Problem Definition & Design Thinking

2.1 Empathy map



2.2 Ideation &Brainstorming map screenshot



3.RESULT

3.1 DATA MODEL

Object name	Fields in the object
Seaborn package	**Cgpa,university rating,sop**

Box plot	**University rating**
Reg plot	**Sop,cgpa**

3.2 Activity &screenshot:

Variable explore:

This scree shot we see the variable screenshot for coding and output.

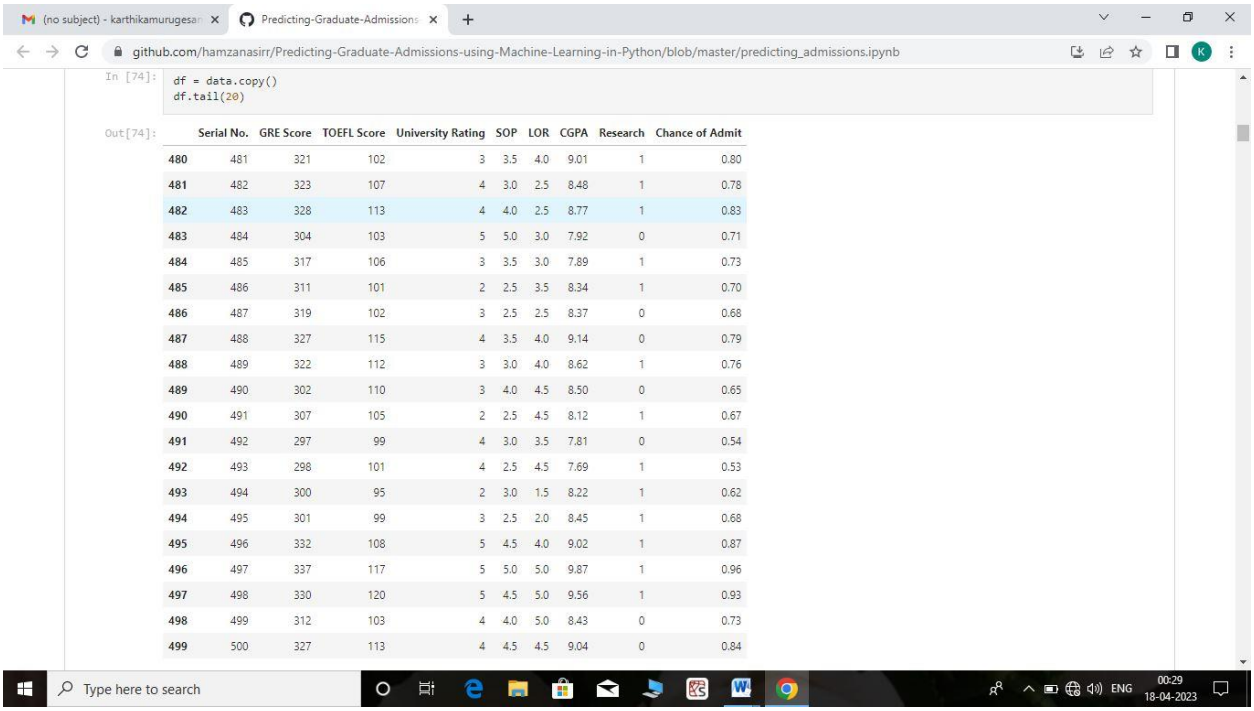
```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
import warnings

%matplotlib inline
sns.set()
warnings.simplefilter('ignore')
```

```
data = pd.read_csv('Admission_Predict_Ver1.1.csv')
```

In [74]:

```
df = data.copy()
df.tail(20)
```

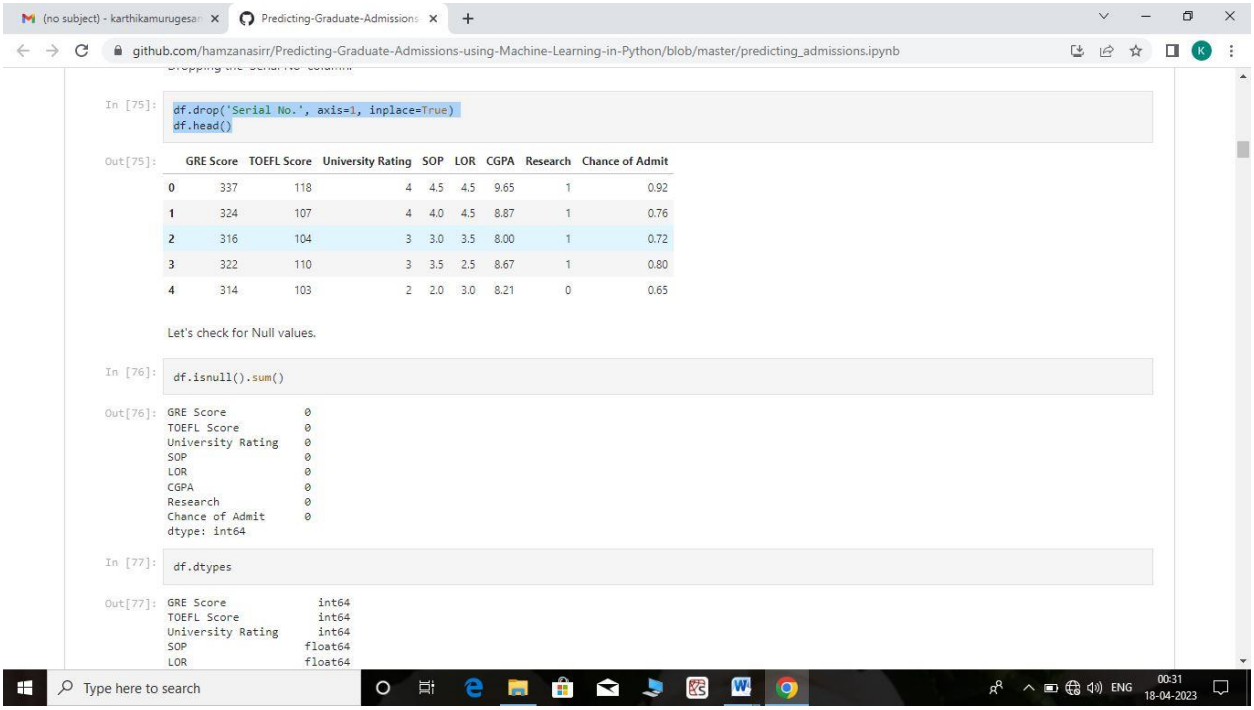


```
In [74]:
df = data.copy()
df.tail(20)
```

Out[74]:

	Serial No.	GRE Score	TOEFL Score	University Rating	SOP	LOR	CGPA	Research	Chance of Admit
480	481	321	102	3	3.5	4.0	9.01	1	0.80
481	482	323	107	4	3.0	2.5	8.48	1	0.78
482	483	328	113	4	4.0	2.5	8.77	1	0.83
483	484	304	103	5	5.0	3.0	7.92	0	0.71
484	485	317	106	3	3.5	3.0	7.89	1	0.73
485	486	311	101	2	2.5	3.5	8.34	1	0.70
486	487	319	102	3	2.5	2.5	8.37	0	0.68
487	488	327	115	4	3.5	4.0	9.14	0	0.79
488	489	322	112	3	3.0	4.0	8.62	1	0.76
489	490	302	110	3	4.0	4.5	8.50	0	0.65
490	491	307	105	2	2.5	4.5	8.12	1	0.67
491	492	297	99	4	3.0	3.5	7.81	0	0.54
492	493	298	101	4	2.5	4.5	7.69	1	0.53
493	494	300	95	2	3.0	1.5	8.22	1	0.62
494	495	301	99	3	2.5	2.0	8.45	1	0.68
495	496	332	108	5	4.5	4.0	9.02	1	0.87
496	497	337	117	5	5.0	5.0	9.87	1	0.96
497	498	330	120	5	4.5	5.0	9.56	1	0.93
498	499	312	103	4	4.0	5.0	8.43	0	0.73
499	500	327	113	4	4.5	4.5	9.04	0	0.84

```
df.drop('Serial No.', axis=1, inplace=True)
df.head()
```



```
In [75]:
df.drop('Serial No.', axis=1, inplace=True)
df.head()
```

Out[75]:

	GRE Score	TOEFL Score	University Rating	SOP	LOR	CGPA	Research	Chance of Admit
0	337	118	4	4.5	4.5	9.65	1	0.92
1	324	107	4	4.0	4.5	8.87	1	0.76
2	316	104	3	3.0	3.5	8.00	1	0.72
3	322	110	3	3.5	2.5	8.67	1	0.80
4	314	103	2	2.0	3.0	8.21	0	0.65

Let's check for Null values.

```
In [76]:
df.isnull().sum()
```

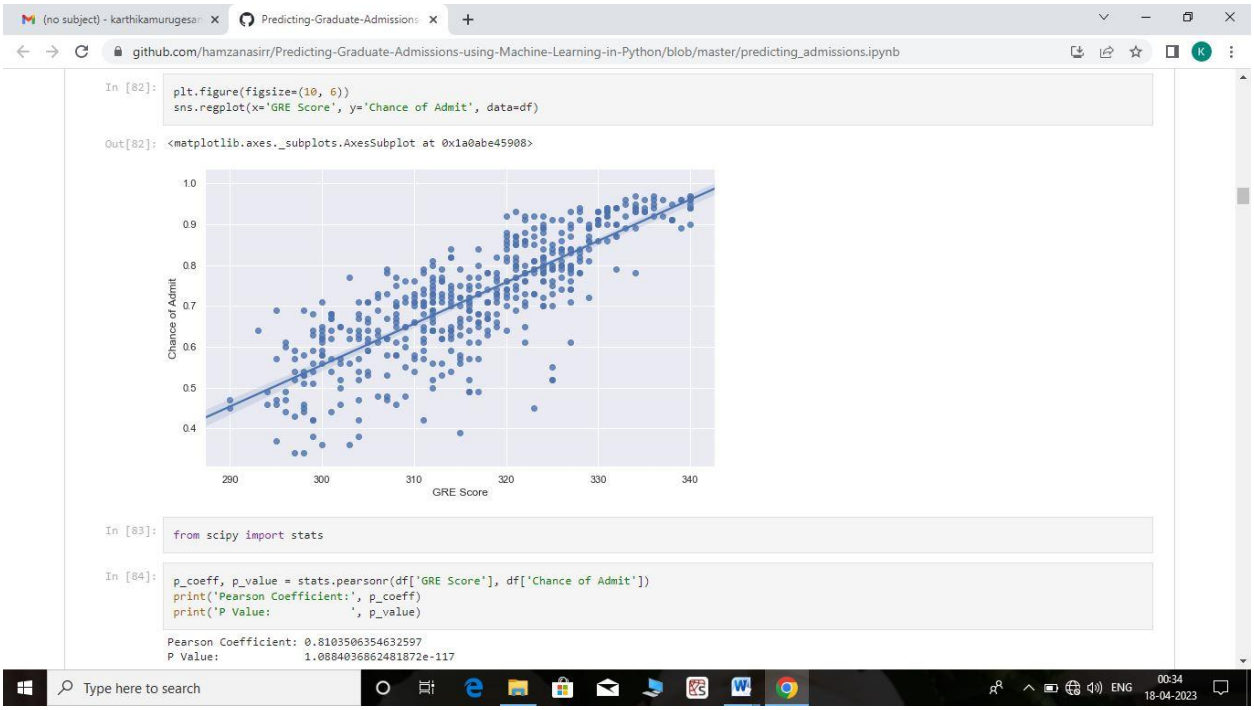
```
Out[76]:
GRE Score          0
TOEFL Score        0
University Rating  0
SOP                0
LOR                0
CGPA               0
Research           0
Chance of Admit    0
dtype: int64
```

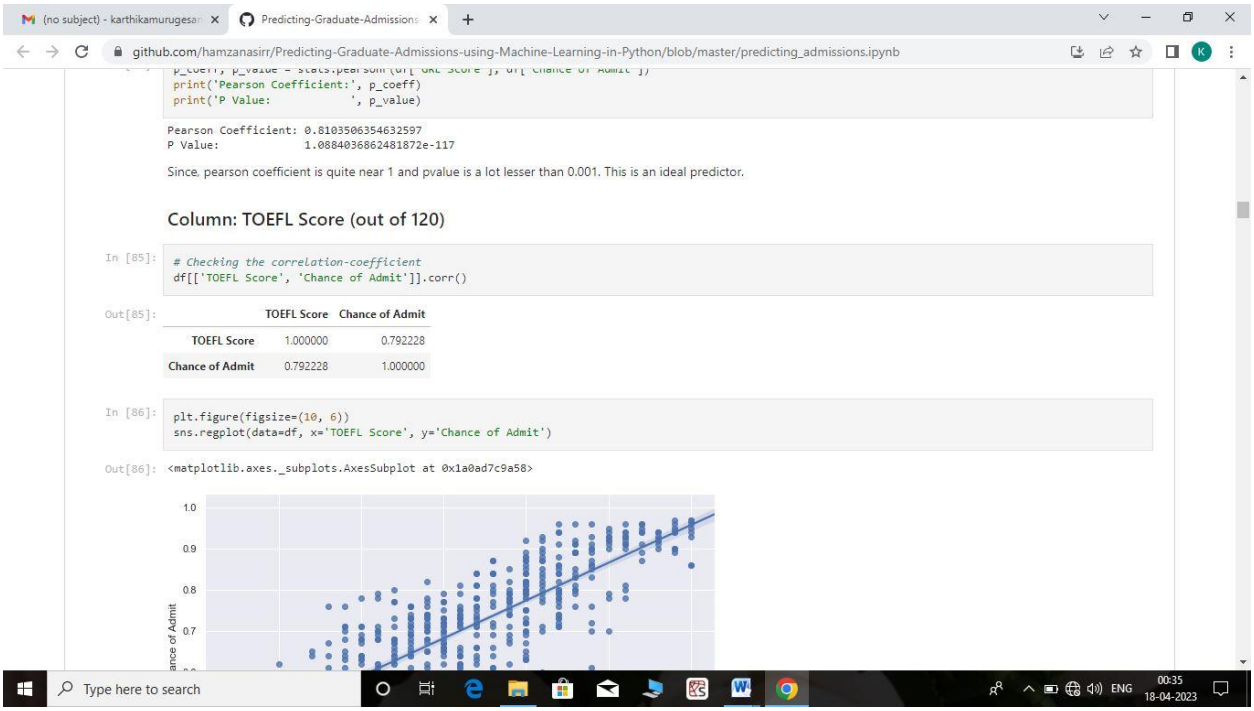
```
In [77]:
df.dtypes
```

```
Out[77]:
GRE Score            int64
TOEFL Score          int64
University Rating    int64
SOP                float64
LOR                float64
```

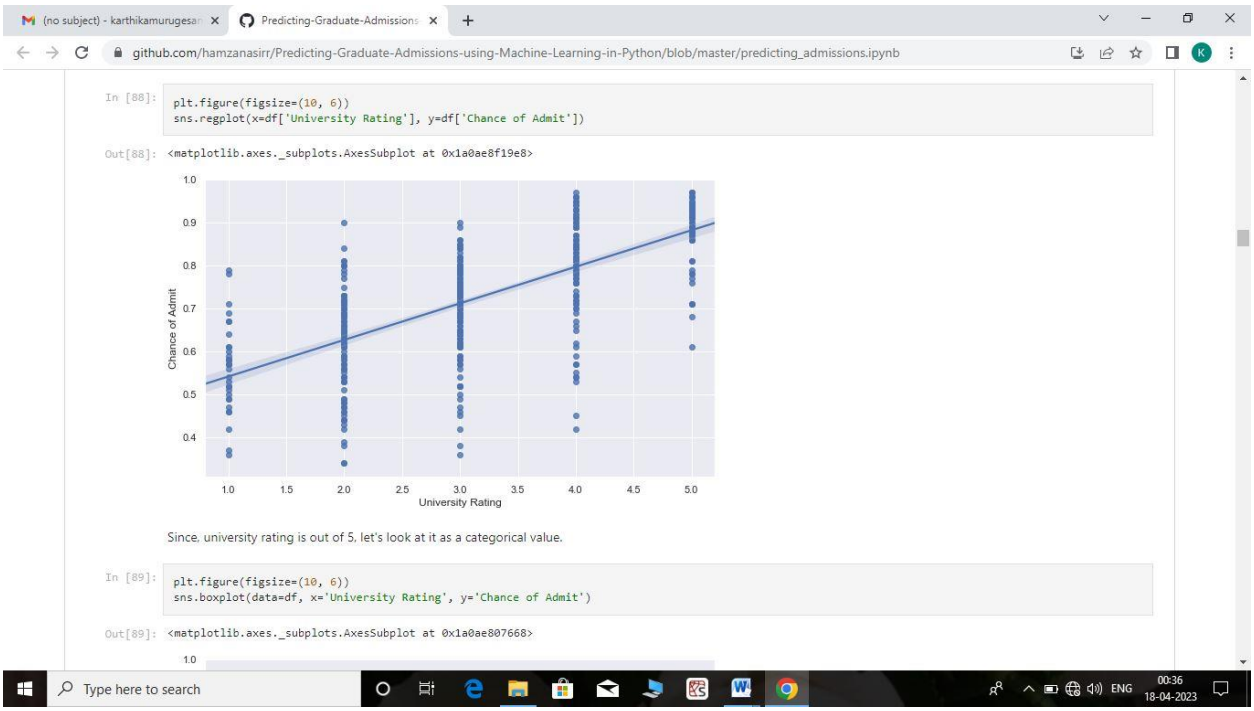
Cgpa:

```
plt.figure(figsize=(10, 6))
sns.regplot(x=df.CGPA, y=df['Chance of Admit'])
```

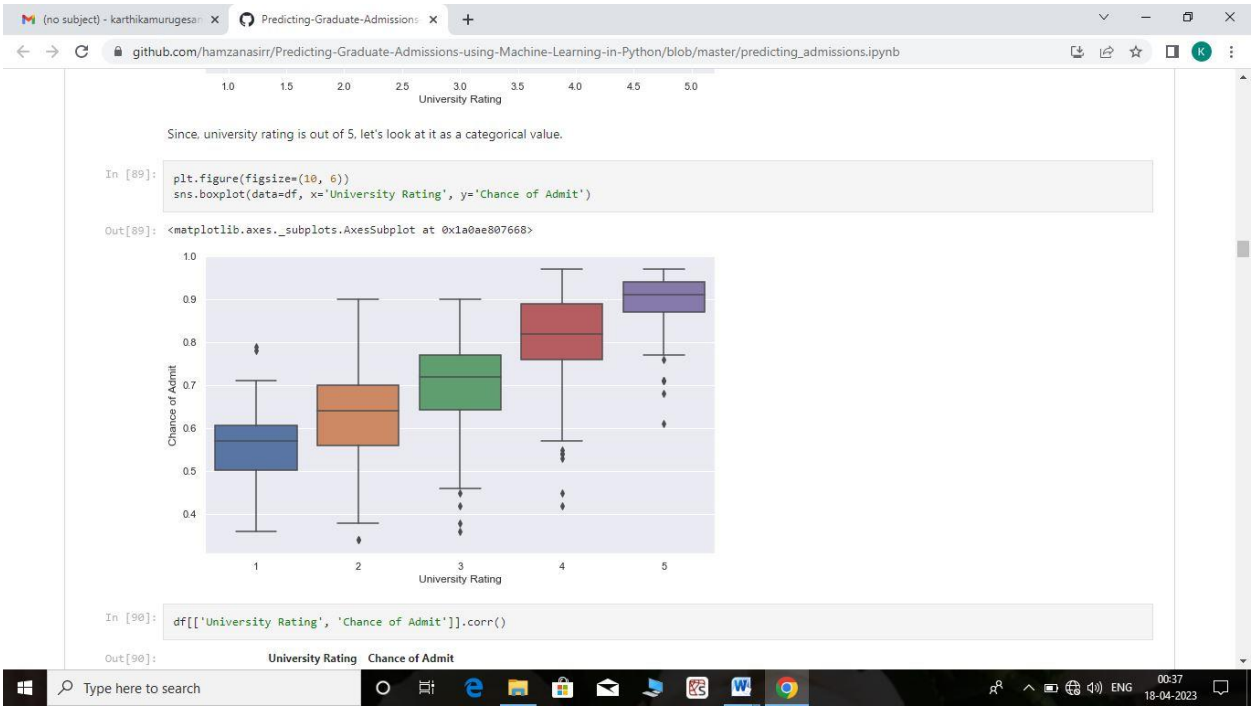




University rating:



Box plot:



4.Trailhead profile public URL

Team Lead-https://trailblazer.me/id/karthika16

Team member1-
https://trailblazer.me/id/marees87

Team member2-
https://trailblazer.me/id/jenora818

Team member3-https://trailblazer.me/id/maha80

5.Advantages & disadvantages

Advantages:

In this project is use full for every university.

It is very suitable project for university admission prediction.

Its fast efficient.

Avoid data retundancy.

Very userfriendly.

Disadvantages:

In this collection the student data are very lot.

6.Application:

The project can be applied in university admission system.

Scholl and colleges.

Medical industries.

Business.

Campus.

7.conclusion:

Future work will focus on incompleting the proposed architecture for the education system.

8.Futurescope:

It is very usefull project for future

Team leader:

m.karthika

g.mareeswari

j.jenora malini

m.mahalakshmi