PROJECT REPORT

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

PROJECT DESCRIPTION

- 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 participating in interviews or other evaluations.
- ➤ Students are often worried about their chances of admissions in university. The university admissions process for students can be demanding, but by being well-informed, prepared, and organized, students can increase their chances of being admitted to the university of their choice.
- The project aim to predict the chances of a student getting admitted to a particular university based on certain factors the business values of this project is that it will helped students make more informed decision about which universities to apply to, and help university counsellors to better advise students on the universities they are most likely to be admitted to the university.
- ➤ The ability to accurately predict the chances of university admissions can help students make more informed decision about which university to apply to, increasing the chances of begin admitted and ultimately gaining access to higher education

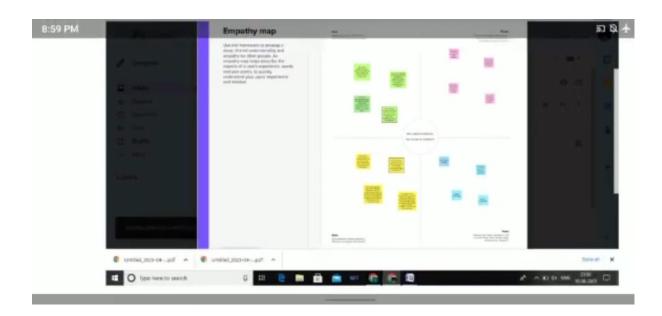
THE PURPOSE OF THE PROJECT:

✓ The aim of this project is to help students in short listing universities with their profiles. Machine learning algorithms are then used to train a modal 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 applicant.

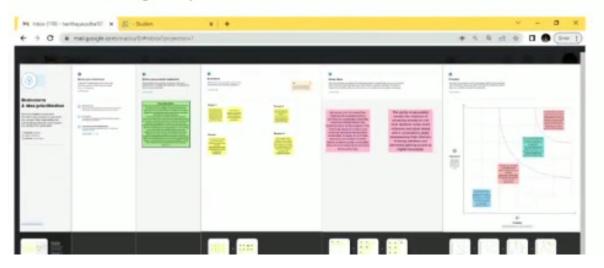
✓ The predicted output gives them a fair idea about their admission chances in a particular university . this analysis should also help students who are currently preparing or will be preparing to get a better idea

PROBLEM DEFINITION AND DESIGN THINKING:

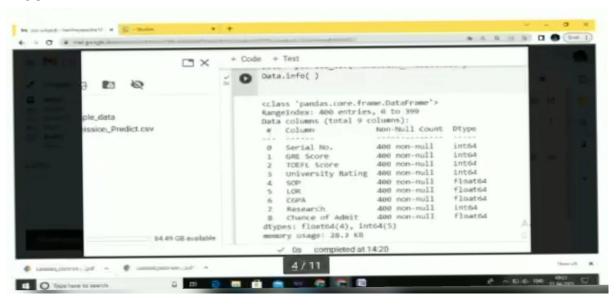
EMPATHY MAP

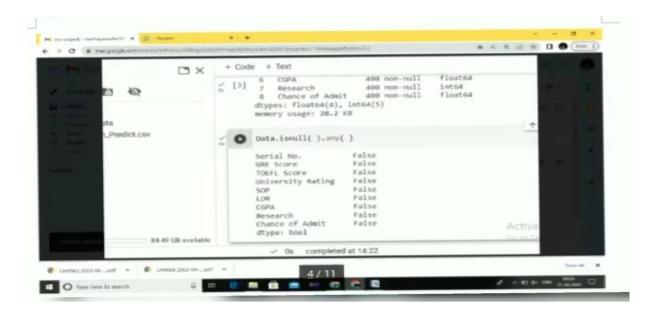


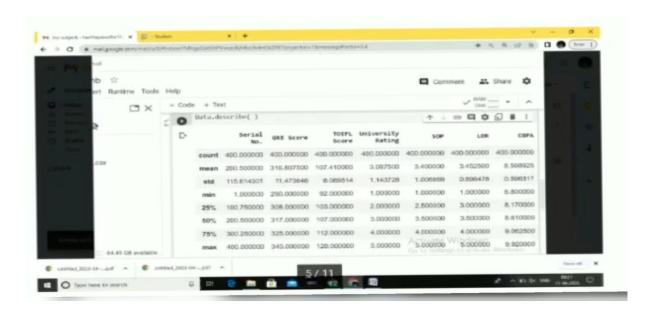
Brainstroming map:

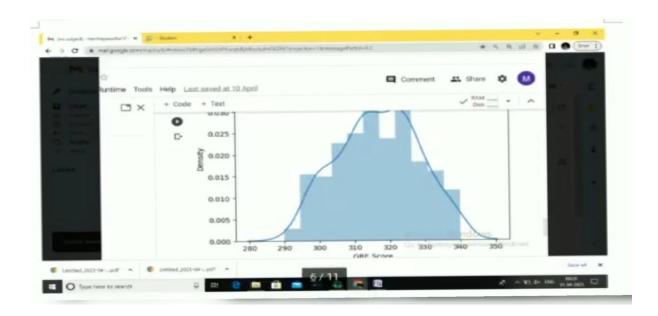


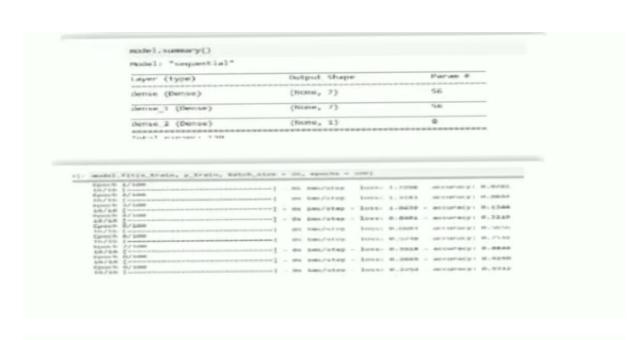
RESULT:



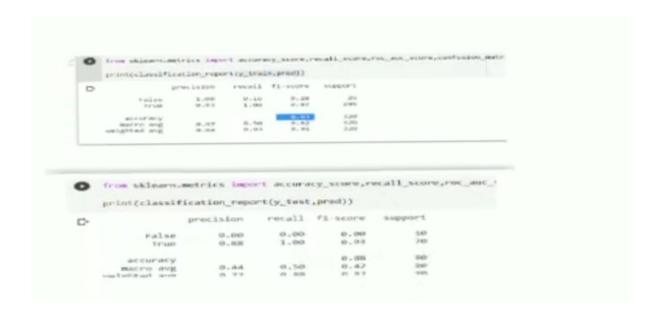








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ADVANTAGES OF INTELLIGENT ADMISSIONS:

- It helps student for making decision for choosing a right college
- ➤ Here the chance of occurrence of error is less when compared with the existing system.
- It is fast, efficient and reliable.
- Avoids data redundancy and inconsistency.
- Very user-friendly.
- > Easy accessibility of data.
- ➤ Student and placement officer post are first sent to admin for approval. It keeps the system stable by not posting any spam or miscellaneous content on the web.

DISADVANTAGES OF INTELLIGENT ADMISSIONS:

- Required active internet connection.
- > System will provide inaccurate results if data entered in correctly.
- May produce inaccurate results if the data is not feed properly.
- Requires an active internet connection

APPLICATIONS

- Schools and colleges
- Medical industry
- Business
- Campus

CONCLUSION

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

FUTURE SCOPE

High level information technology skills will continue to be in demand as technology advantages and become more intergrated into every area of daily life .

APPENDIX:

Import numpy as np

Import pandas as pd

Import matplotilb.pyplot as plt

Impor seaborn as sns

%matpltlib inline

Data=pd.read_csv('Admission_predict.csv)

Data.info()

Data.isnull().any()

Data=data.rename(colums={'Change of Admit':'Change of Admin'})

Data.describe()

Sns.displot(data['GRE Score'])

Sns.pairplot(data=data,hue='Research',markers=['^','v'],palette='inferno')

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Sns.scatterplot(x='University Rating',y='CGPA',data=data,color='Red',s=100)
Category=['GRE Score',TOEFL Scoree','University
Rating','SOP','LOR','GGPA','Research','change of admit']
Color='yellowgreen','gold','lightskyblue','pink','red','purplr','orange','gray']
Start=True
For i in np.arange(4):
    Flg=plt.figure(figsize=((14,8))
    Plt.subplot2grid((4,2),(i,0))
    Data(category[2*i].his(color=color[2*i]P.bins=10)
    Plt.title(category[2*i])
    Plt.subplot2grid((4,2)'(i,1))
    Data[category[2*i+1].hist(color=color[2*i+1],bins=10))
    Plt.title(category[2*i+1])
Plt.subplots adjust(hspace - 0.7, wspace - 0.2)
Plt.show()
From sklearn.preprocessing import MinMaxScaler
Sc=MinMaxScaler()
X=sc.fit_transform(x)
Χ
X=data.iloc[:0:7].values
Χ
Y=data.iloc[:,7:].values
Υ
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From sklearn.model selection import train test split
X_train,x_test,y_train,y_test = train_test_test_split(x,y)
test_size=0.30,random_state+101)
Y train=(y train>0.5)
Y train
Y_test=(y-test>0.5)
From sklearn.liner model.logistic import LogisticRegression
Cls=Logistic Regression(random state=0)
Ir=cls fit(x_train,y_train)
Y pred=ir predict (x test)
Y pred
Import tensorflow as tf
From tensorflow import keras
From tensorflow.kears.layers import Dence, Activation, Dropout
From tensorflow.kears.optimizers import Adam
Model=kears.sequential()
Model.add(Dence(7,activation='relu',input_dim=7))
Model.add(Dence(7,activation='relu'))
Model.add(Dence(7,activation='relu'))
Model.add(Dence(1,activation='linear'))
Model.summery()
Model.fit(x train,y train,batch size=20,epochs=100)
Model.compile(loss='binary crossentropy',optimizer='adam',metrics=['aqiurac
y'])
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Model.fit(x_train,y_train,batch_size=20,epochs=100)
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From sklearm.matrice import accuracy_score

Train_acc=model.evaluate(x_train,y_train,verbose=0)[1]

Print (train_acc)

Test_acc=model.evaluate(x_test,y_test,verbose=0)[1]

Print (test_acc)

Pred=model.predict (x_test)