

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
import csv
from google.colab import files
uploaded = files.upload()
```

No file chosen Upload widget is only available when the cell has been executed in the current browser session. Please rerun this cell to enable.
Saving Admission Predict.csv to Admission Predict.csv

Double-click (or enter) to edit

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Saving Admission Predict.csv to Admission Predict (?) .csv

```
data = pd.read_csv('Admission_Predict.csv')
```

```
data.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 400 entries, 0 to 399
Data columns (total 9 columns):
#   Column              Non-Null Count  Dtype
---  -
0   Serial No.          400 non-null   int64
1   GRE Score           400 non-null   int64
2   TOEFL Score         400 non-null   int64
3   University Rating   400 non-null   int64
4   SOP                 400 non-null   float64
5   LOR                 400 non-null   float64
6   CGPA                400 non-null   float64
7   Research            400 non-null   int64
8   Chance of Admit     400 non-null   float64
dtypes: float64(4), int64(5)
memory usage: 28.2 KB
```

```
data.isnull()
```

Serial No.	GRE Score	TOEFL Score	University Rating	SOP	LOR	CGPA	Research	Chance of Admit
------------	-----------	-------------	-------------------	-----	-----	------	----------	-----------------

```
sns.distplot(data['GRE Score'])
```

```
<ipython-input-6-64e93544a305>:1: UserWarning:
```

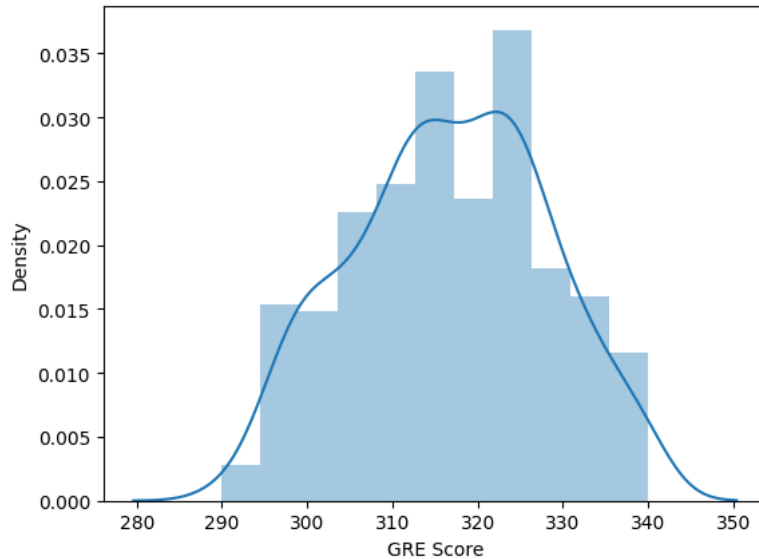
```
`distplot` is a deprecated function and will be removed in seaborn v0.14.0.
```

Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).

For a guide to updating your code to use the new functions, please see

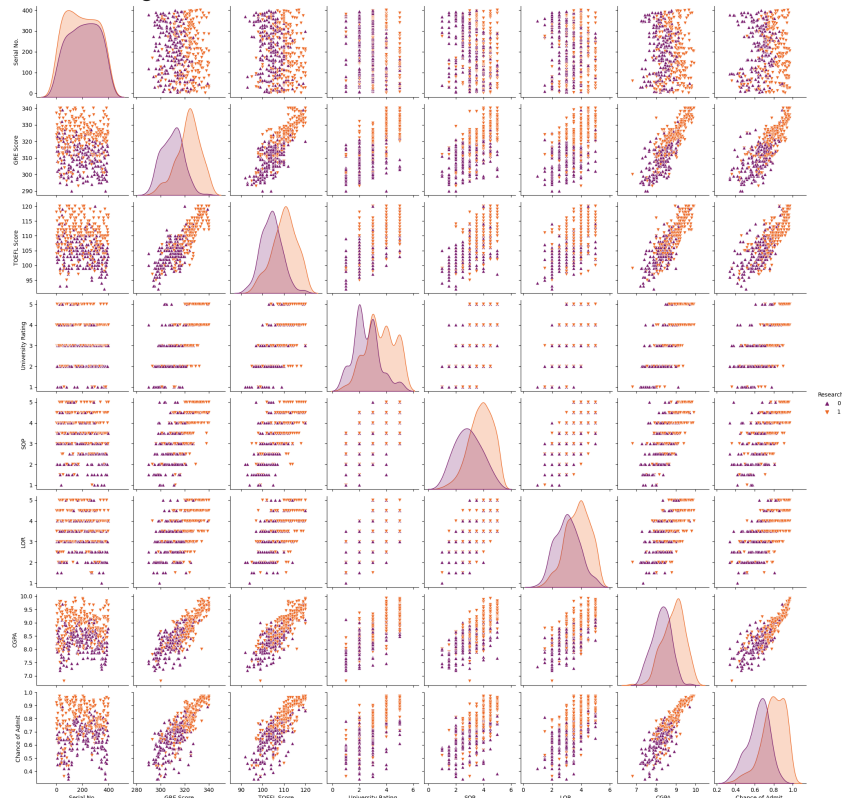
<https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751>

```
sns.distplot(data['GRE Score'])  
<Axes: xlabel='GRE Score', ylabel='Density'>
```



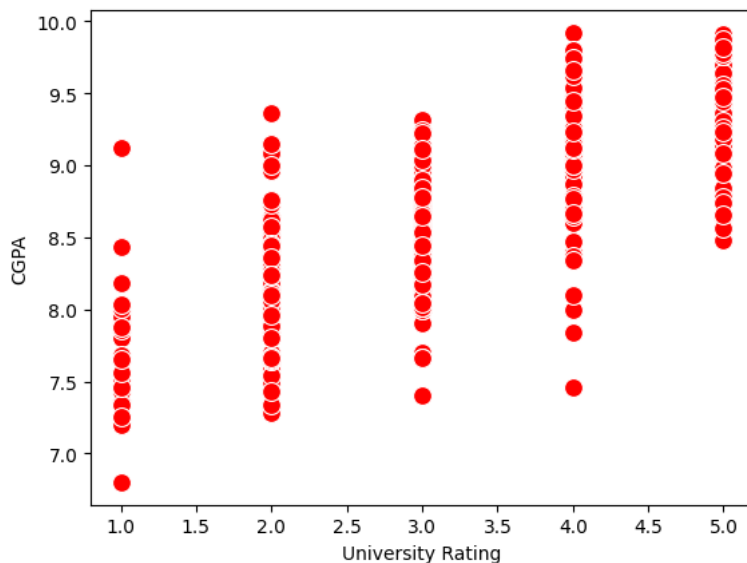
```
sns.pairplot(data=data,hue='Research',markers=["^","v"],palette='inferno')
```

<seaborn.axisgrid.PairGrid at 0x7f2b31912790>

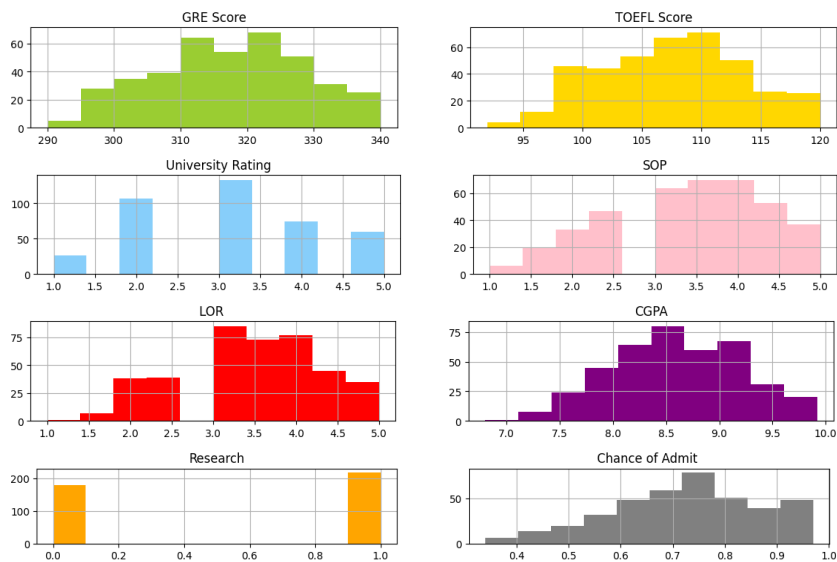


```
sns.scatterplot(x='University Rating',y='CGPA',data=data,color='Red',s=100)
```

<Axes: xlabel='University Rating', ylabel='CGPA'>



```
category = ['GRE Score','TOEFL Score','University Rating','SOP','LOR ','CGPA','Research','Chance of Admit ']
color = ['Yellowgreen','gold','lightskyblue','pink','red','purple','orange','gray']
start = True
for i in np.arange(4):
    fig = plt.figure(figsize=(14,8))
    plt.subplot2grid((4,2),(i,0))
    data[category[2*i]].hist(color=color[2*i],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)
x
```

```
x=data.iloc[:,0:7].values
x
```

```
array([[ 1. , 337. , 118. , ..., 4.5 , 4.5 , 9.65],
       [ 2. , 324. , 107. , ..., 4. , 4.5 , 8.87],
       [ 3. , 316. , 104. , ..., 3. , 3.5 , 8. ],
       ...,
       [398. , 330. , 116. , ..., 5. , 4.5 , 9.45],
       [399. , 312. , 103. , ..., 3.5 , 4. , 8.78],
       [400. , 333. , 117. , ..., 5. , 4. , 9.66]])
```

```
y=data.iloc[:,7:].values
y
```

```
array([[1. , 0.92],
       [1. , 0.76],
       [1. , 0.72],
       [1. , 0.8 ],
       [0. , 0.65],
       [1. , 0.9 ],
       [1. , 0.75],
       [0. , 0.68],
       [0. , 0.5 ],
       [0. , 0.45],
       [1. , 0.52],
       [1. , 0.84],
       [1. , 0.78],
       [1. , 0.62],
       [1. , 0.61],
       [0. , 0.54],
       [0. , 0.66],
       [1. , 0.65],
       [0. , 0.63],
       [0. , 0.62],
       [1. , 0.64],
       [0. , 0.7 ],
       [1. , 0.94],
       [1. , 0.95],
       [1. , 0.97],
       [1. , 0.94],
       [0. , 0.76],
```

[illegible]

```

[ True,  True],
[False,  True],
[ True,  True],
[False,  True],
[ True,  True],
[False, False],
[False,  True]

y_test=(y_test>0.5)

from sklearn.linear_model import LogisticRegression
cls=LogisticRegression(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.keras.layers import Dense, Activation,Dropout
from tensorflow.keras.optimizers import Adam

model1=keras.sequential()
model1.add(Dense(7,activation = 'relu',input_dim=7))
model1.add(Dense(7,activation='relu'))
model1.add(Dense(1,activation='linear'))
model1.summary()
model: "sequential"

model.summary()
model: "sequential"

model.fit(x_train,y_train,batch_size=20,epochs=100)

model.compile(loss= 'binary_crossentropy',optimizer= 'adam',metrics=['accuracy'])

model.fit(x_train,y_train, batch_size=20, epochs=100)

from sklearn.metrics import accuracy_score
train_predictions= model.predict(x_train)
print(train_predictions)

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)

print(classification_report(v test.pred))

File "<ipython-input-27-b549722b754f>", line 1
    print(classification_report(v test.pred))
                                ^
SyntaxError: invalid syntax

SEARCH STACK OVERFLOW

pred=model.predict(x_test)
pred = (pred>0.5)
pred

from sklearn.metrics import accuracy_score,recall_score,roc_auc_score,confusion_matrix
print("\nAccuracy score : %f" %(accuracy_score(y_test,y_pred)*100))
print("\nRecall score : %f" %(recall_score(y_test,y_pred)*100))
print("ROC score : %f\n" %(roc_auc_score(y_test,y_pred)*100))
print(confusion_matrix(y_test,y__pred))

, classification_report
from sklearn.metrics import accuracy_score,recall_score,roc_auc_score,confusion_matr:
print(classification_report(y_test,pred))

```

```
model.save('model.h5')
```

```
import numpy as np
from flask import Flask,request,jsonify,render_template
import pickle
app = Flask(__name__)
from tensorflow.keras.models import linear_model
```

```
-----
NameError                                Traceback (most recent call last)
<ipython-input-44-21bc3785ce0e> in <cell line: 4>()
      2 from flask import Flask,request,jsonify,render_template
      3 import pickle
----> 4 app = Flask(__name__)
      5 from tensorflow.keras.models import linear_model
      6

NameError: name '__name__' is not defined
```

SEARCH STACK OVERFLOW

```
model = load_model('model.h5')
```

```
-----
NameError                                Traceback (most recent call last)
<ipython-input-45-46901180ca61> in <cell line: 1>()
----> 1 model=load

NameError: name 'load' is not defined
```

SEARCH STACK OVERFLOW

```
def home():
    return render_template('Dem02.html')
```

```
def home():
    return render_template('Demo2.html')
def y_predict():
    min1=[290.0,92.0,1.0,1.0,6.8,0.0]
    max1=[340,120.0,5.0,5.0,5.0,9.92,1.0]
    k=[float(x)for x in request.form.values()]
    p=[]
    for i in range(7):
        L=(k[i]-min[i])/(max1[i]-min1[i])
        P.append(L)
    prediction=model.predict([p])
    print(prediction)
    output=prediction[0]
    if(output==False):
        return render_template('noChance.html',prediction_text='You Dont have a chance of getting')
    else:
        return render_template('chance.html',prediction_text='You have a chance of getting admission')
if __name__=="__main__":
    app.run(debug=False)
```

```
-----
NameError                                Traceback (most recent call last)
<ipython-input-92-7b18bce7f2f6> in <cell line: 18>()
     17     return render_template('chance.html',prediction_text='You have a
chance of getting admission')
     18 if __name__=="__main__":
----> 19     app.run(debug=False)
     20

NameError: name 'app' is not defined
```

SEARCH STACK OVERFLOW

```
        return render_template()
    else:
        return render_template()
if __name__=="__main__":
    app.run(debug=False)
```

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x