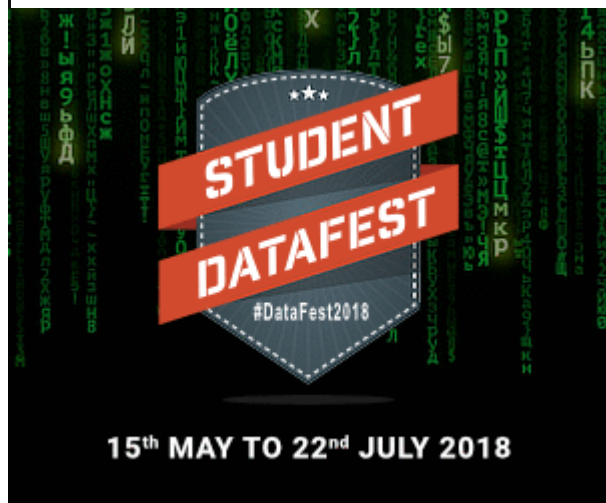


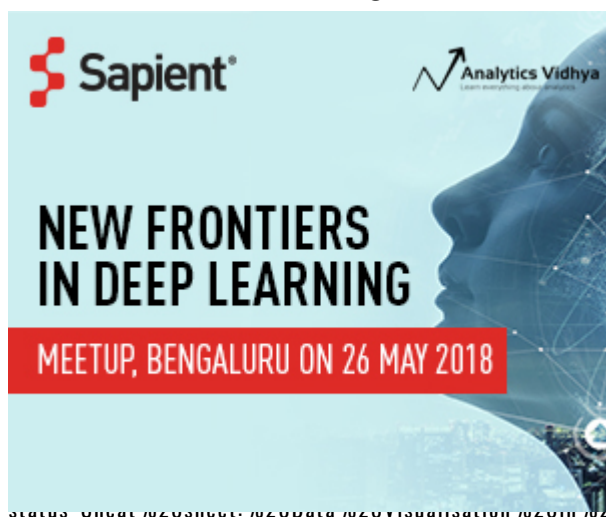
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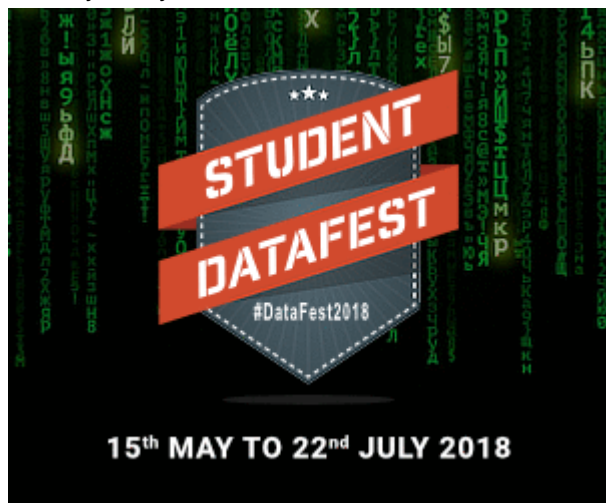
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Introduction

It is said 'A visually presented data speaks for itself'. Data, served in the right visual form, brings out hidden trends and insights to enable faster decision making. The importance of right visualization is only set to increase with increasing data.

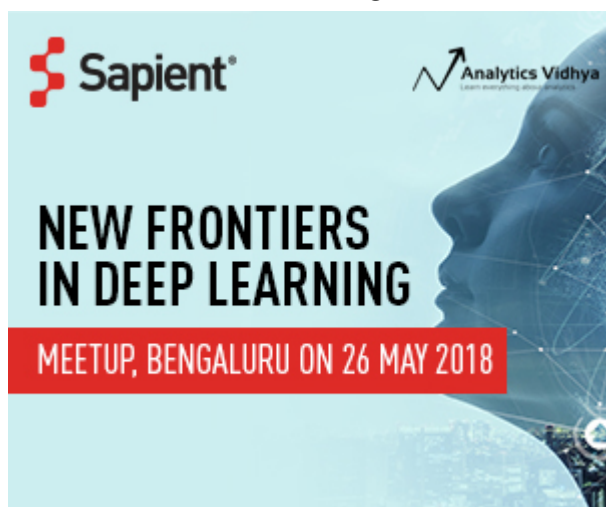
Python, popular for its ease of writing codes, offers some amazing set of libraries support to create visualization. Not only 2D, it has features to create jaw-dropping 3D visualisations & animations. Here is the cheat sheet for popular visualisation methods used for representing data. You can keep this handy for your use:



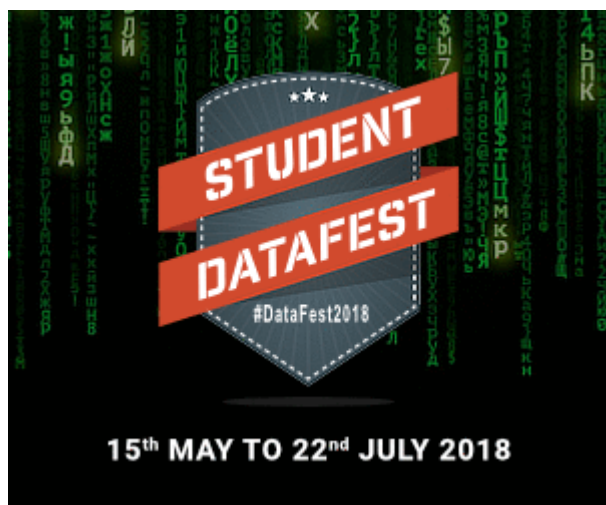
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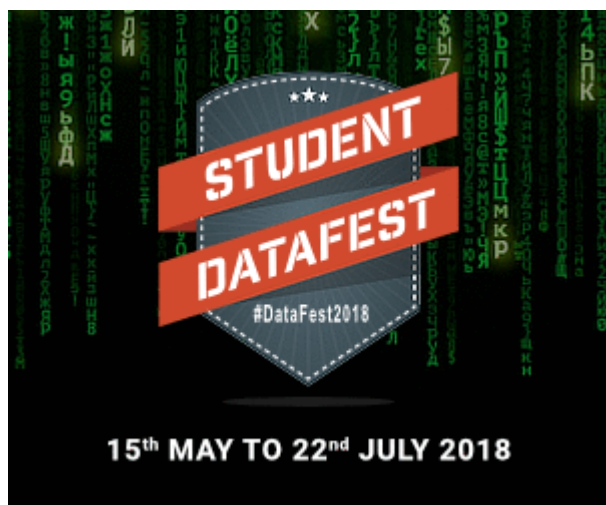
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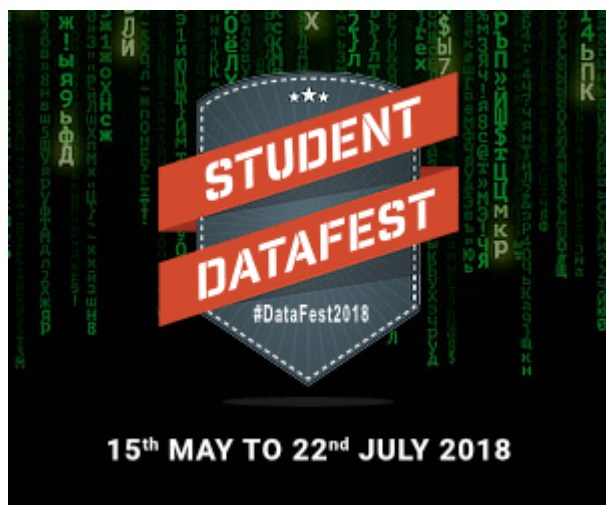
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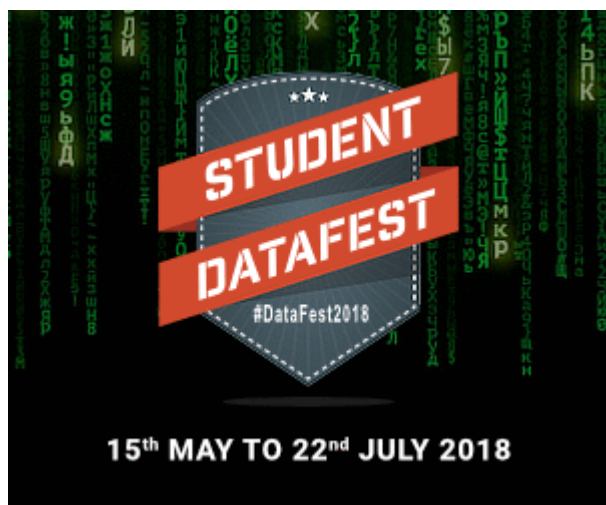
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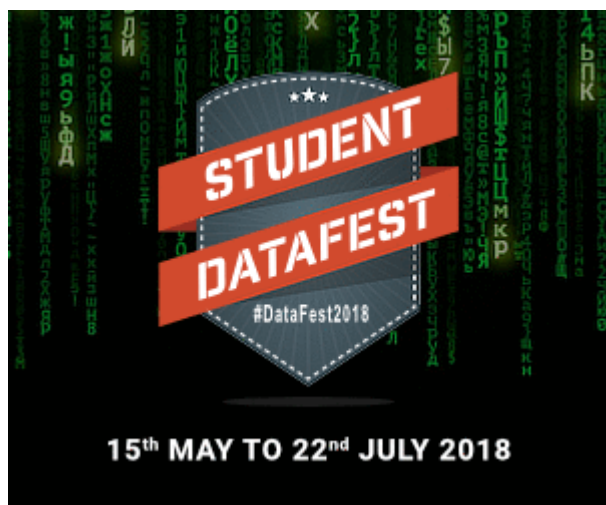
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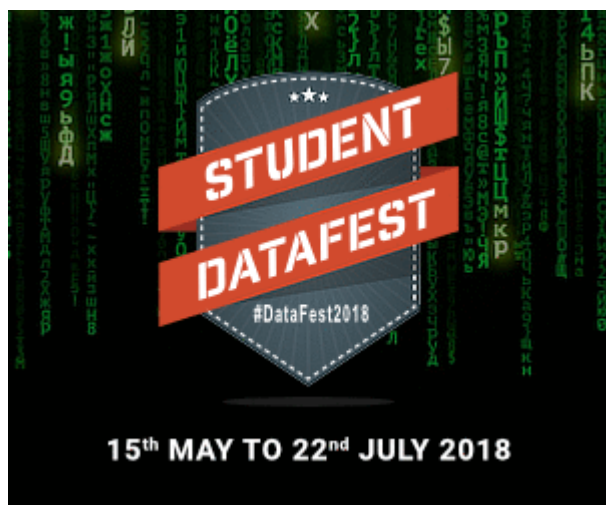
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DATA VISUALISATION IN PYTHON

STUDENT DATAFEST
#DataFest2018

15th MAY TO 22nd JULY 2018

ATSHEET

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**NEW FRONTIERS
IN DEEP LEARNING**

MEETUP, BENGALURU ON 26 MAY 2018

Visualisation an Important Concept ?

distribution, trend, relationship, comparison
s
ckly examine large piles of data and discover

IES IN THE MESSAGE IT CONVEYS "

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WHAT IS REQUIRED TO MAKE VISUALISATION IN PYTHON ?

MATPLOTLIB

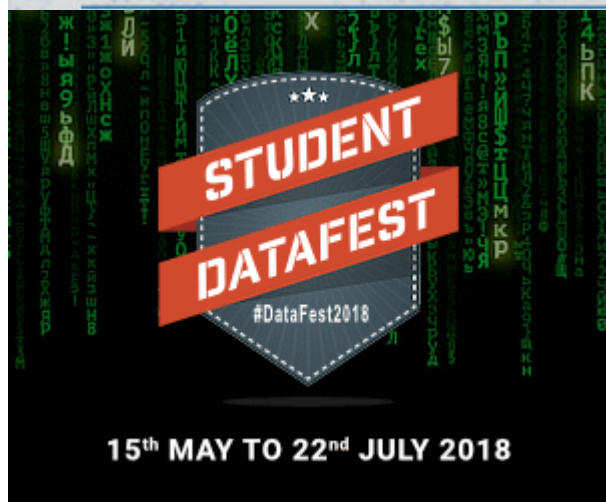
Python based plotting library offers matplotlib with a complete 2D support along with limited 3D graphic support. It is useful in producing publication quality

SEABORN

Being based on matplotlib, seaborn offers various features such as built in themes, color palettes, functions and tools to visualize univariate, bivariate,

figures in interactive environment across platforms.

linear regression, matrices of data, statistical time series etc which lets us to build complex visualizations.



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EMPID	Gender	Age	Sales	BMI	Income
E001	M	34	123	Normal	350
E002	F	40	114	Overweight	450
E003	F	37	135	Obesity	169
E004	M	30	139	Underweight	189
E005	F	44	117	Underweight	183
E006	M	36	121	Normal	80
E007	M	32	133	Obesity	166
E008	F	26	140	Normal	120
E009	M	32	133	Normal	75
E010	M	36	133	Underweight	40

Import Data Set:



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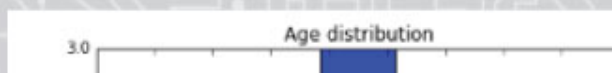
MEETUP, BENGALURU ON 26 MAY 2018

```
import matplotlib.pyplot as plt
import pandas as pd
df = pd.read_excel("E:/First.xlsx", "Sheet1")
```

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Histogram

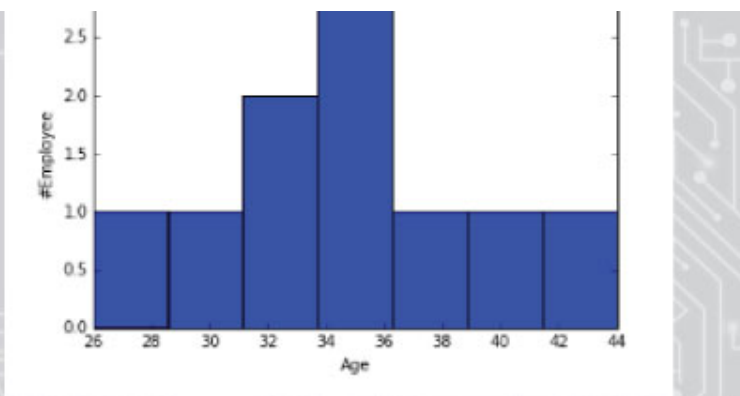
```
fig=plt.figure()
ax = fig.add_subplot(1,1,1)
ax.hist(df['Age'],bins = 7) # Here you can
play with number of bins Labels and Tit
plt.title('Age distribution')
plt.xlabel('Age')
```



`plt.ylabel('#Employee')`
`plt.show()`

STUDENT DATAFEST
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15th MAY TO 22nd JULY 2018



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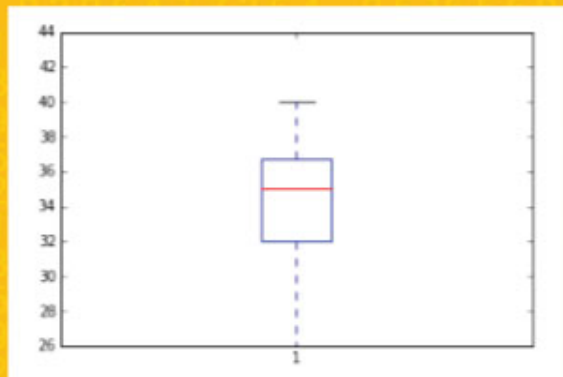
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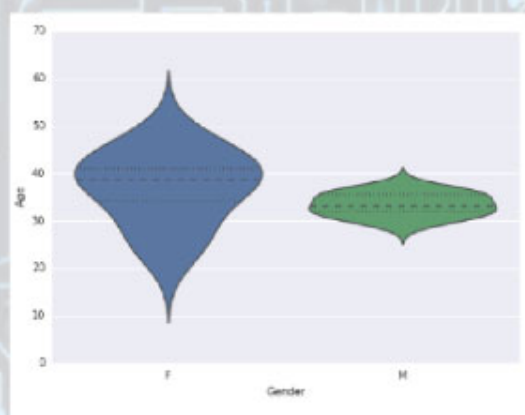
Box Plot



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`import seaborn as sns`
`sns.violinplot(df['Age'], df['Gender'])`
`#Variable Plot`
`sns.despine()`

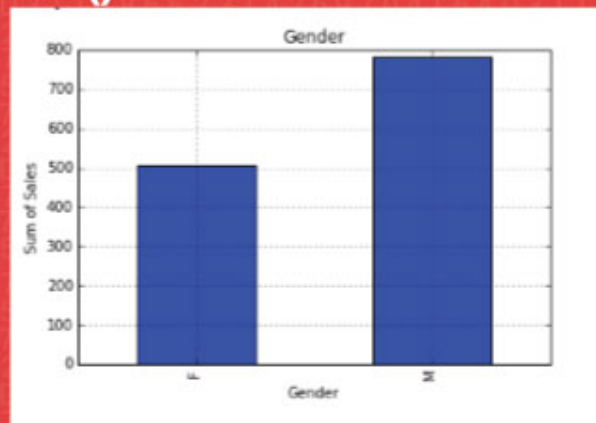
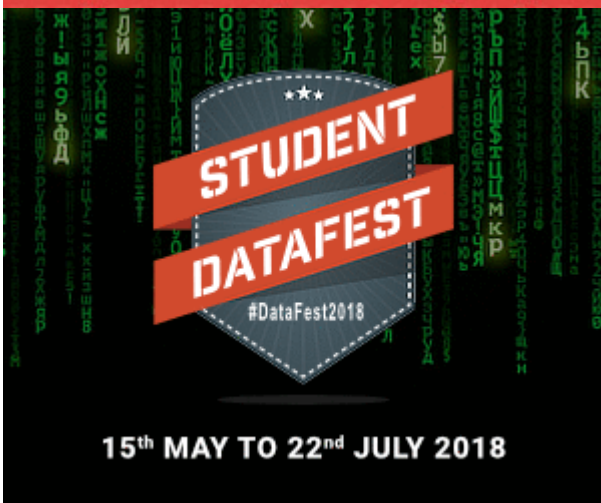
Violin Plot



Bar Chart

Bar Chart

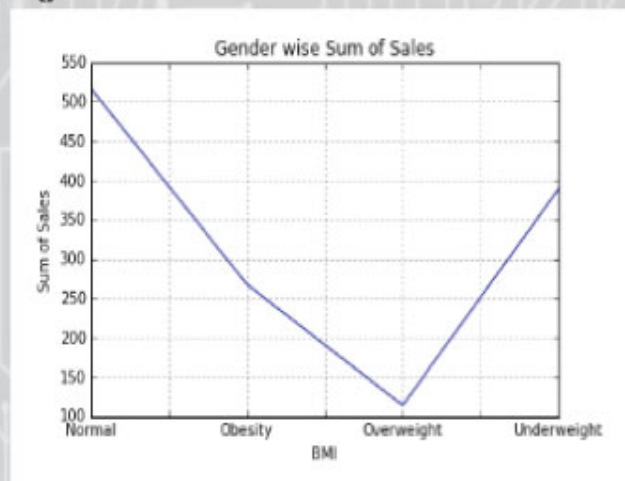
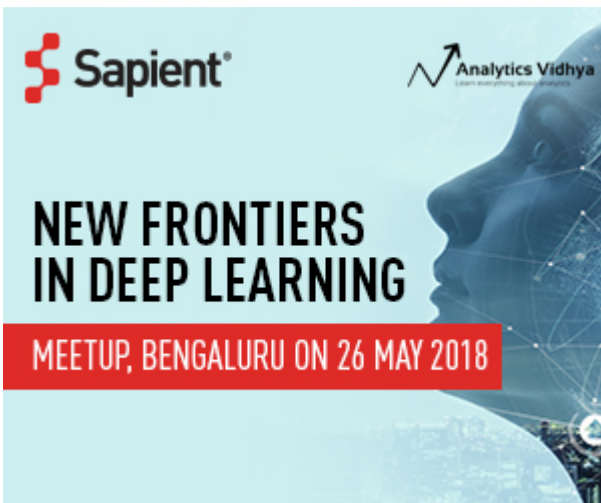
```
var = df.groupby('Gender').Sales.sum()
```



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Line Chart

```
var = df.groupby('BMI').Sales.sum()
```

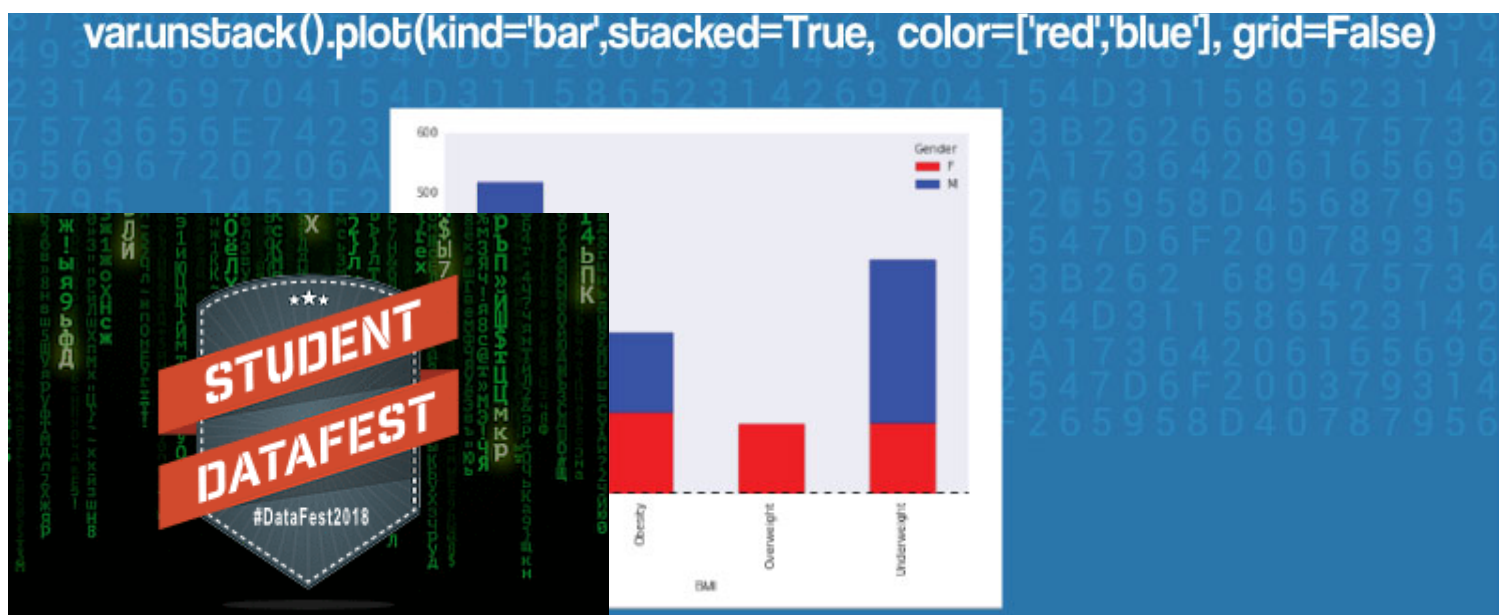


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```
var.plot(kind='line')
```

Stacked Column Chart

```
var = df.groupby(['BMI','Gender']).Sales.sum()
```

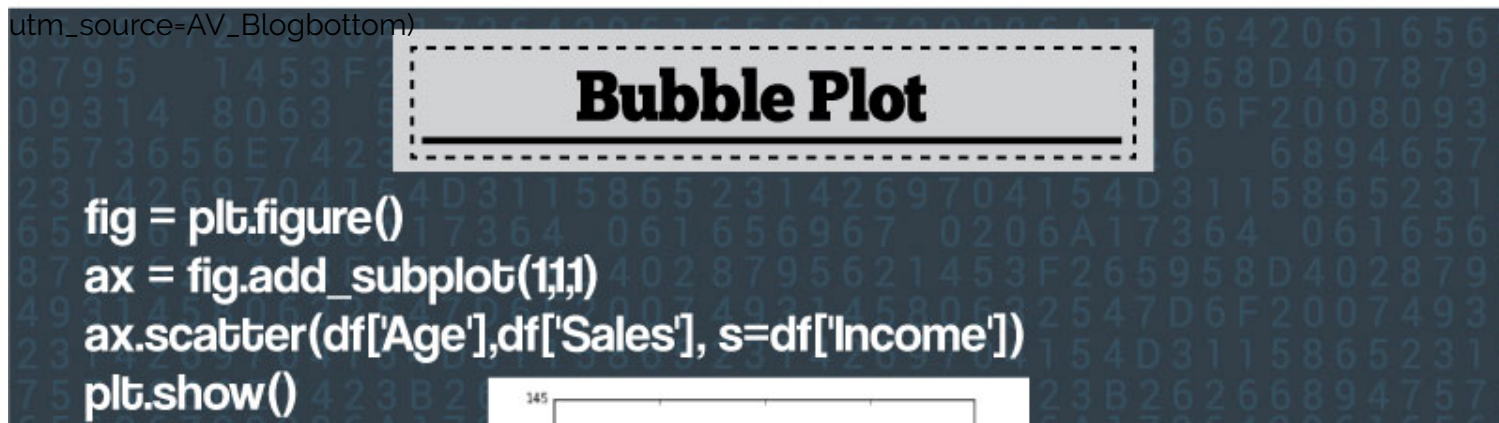



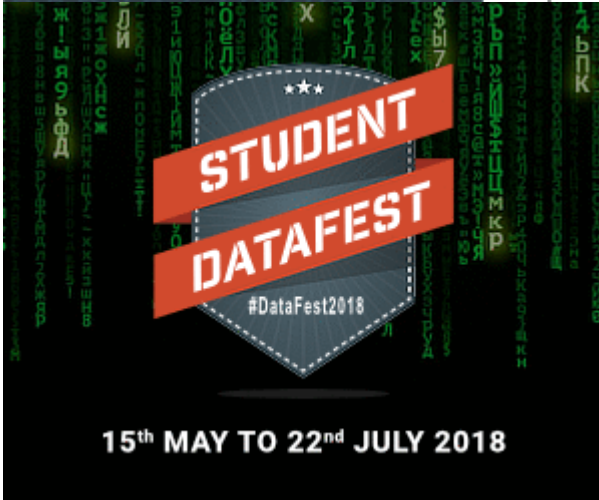
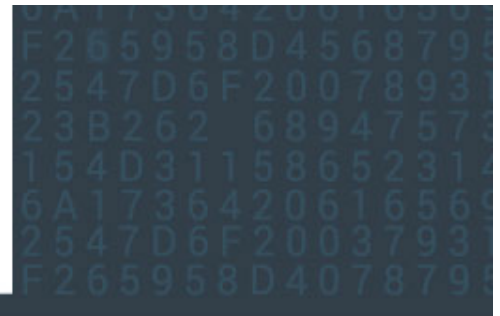
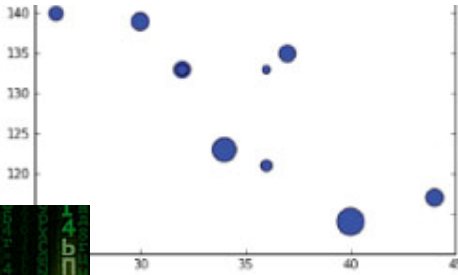
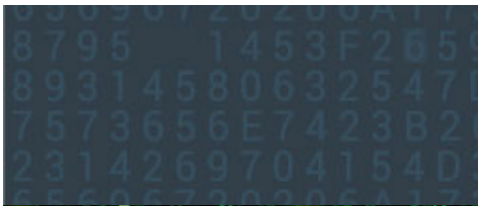
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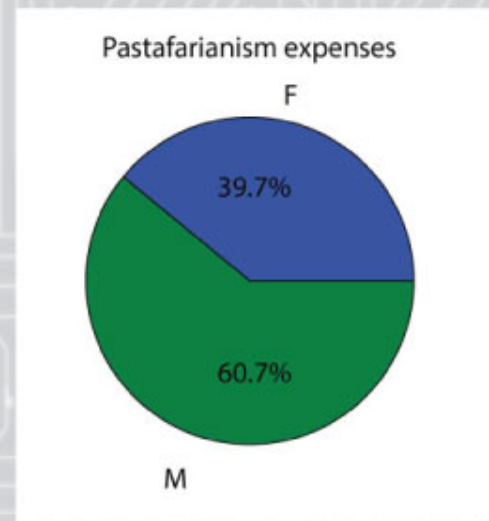
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Pie Chart

`er]').sum().stack()`



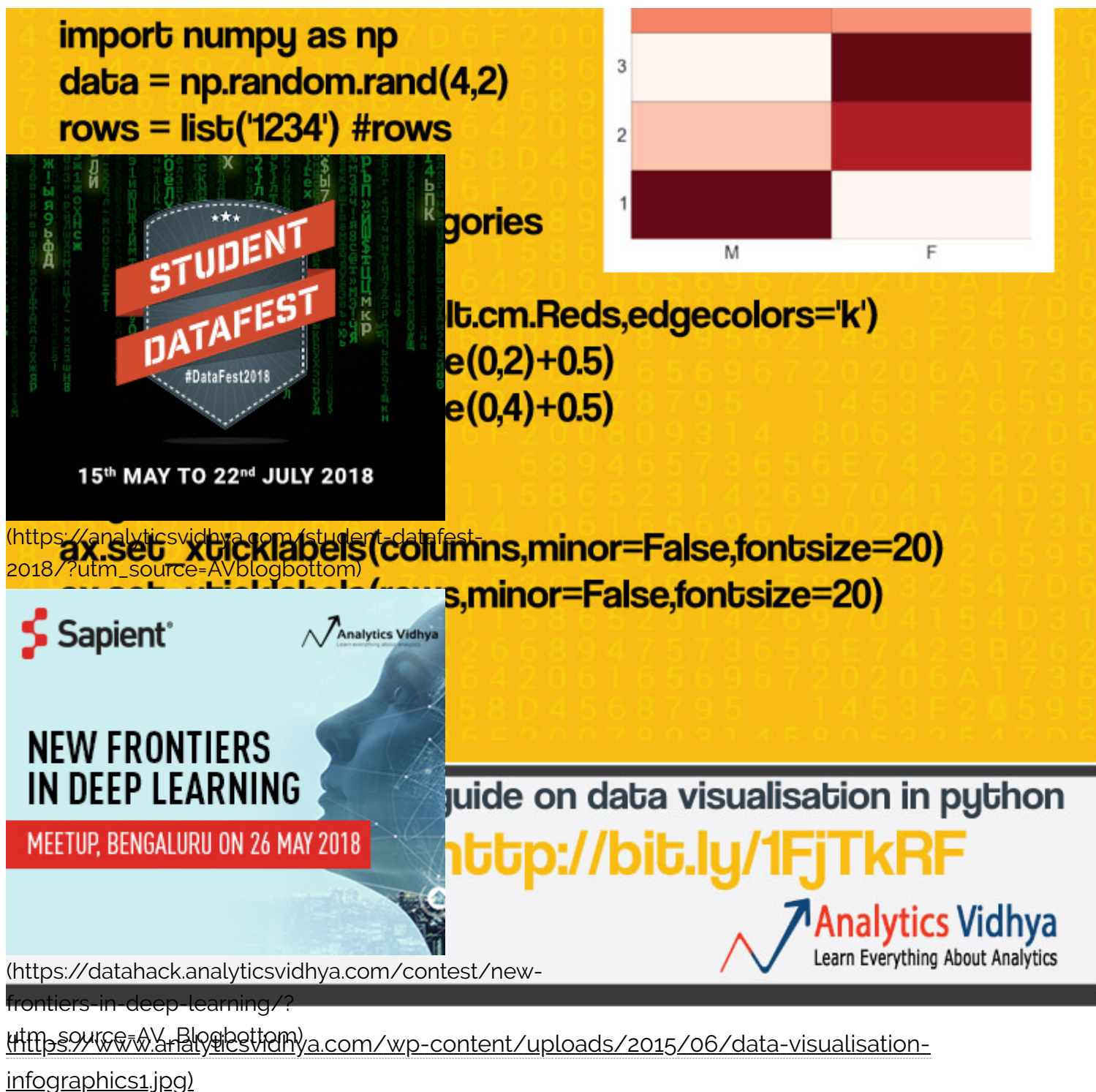
the pie chart
make it a
equal")

`cel_list,autopct="%1.1f%%")`

`h expenses")`

Heat Map

4



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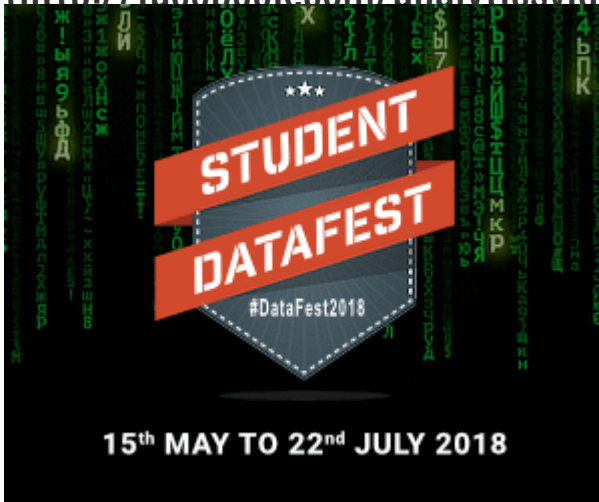
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If you wish to gain a complete knowledge on data visualisation, here's the ultimate guide on data visualisation (<https://www.analyticsvidhya.com/blog/2015/05/data-visualization-resource/>).

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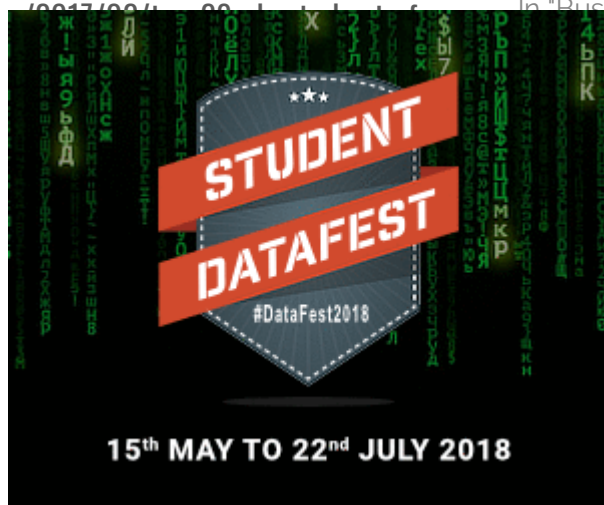
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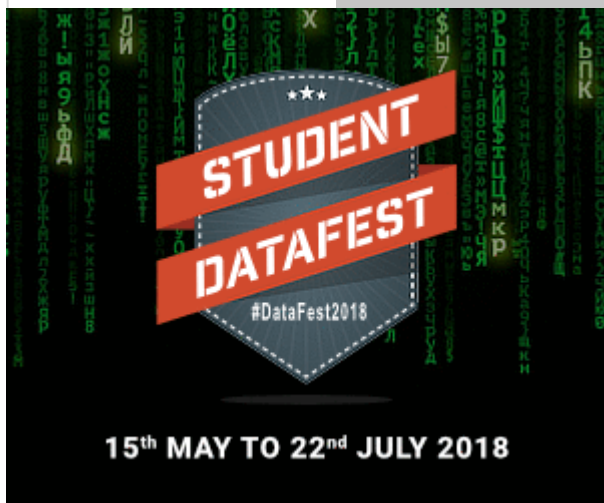


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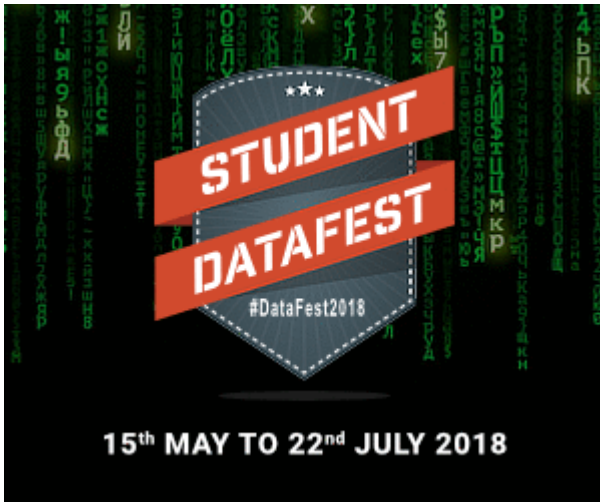
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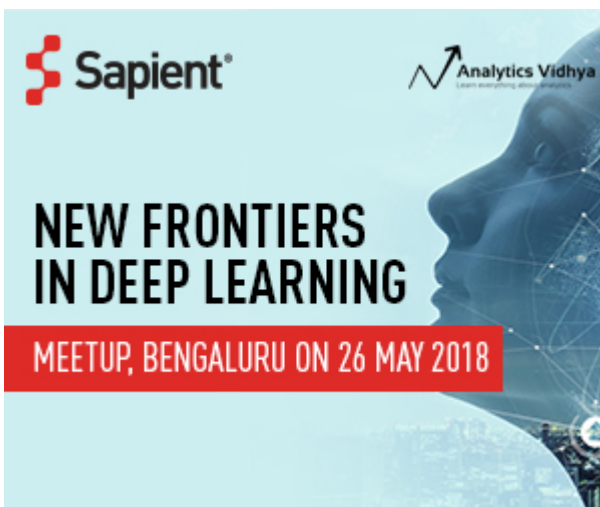
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Have a look at PyGal and GGPlot as well for visualization.



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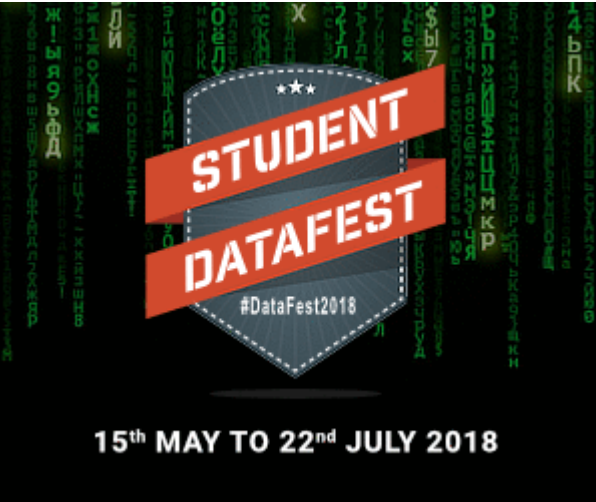


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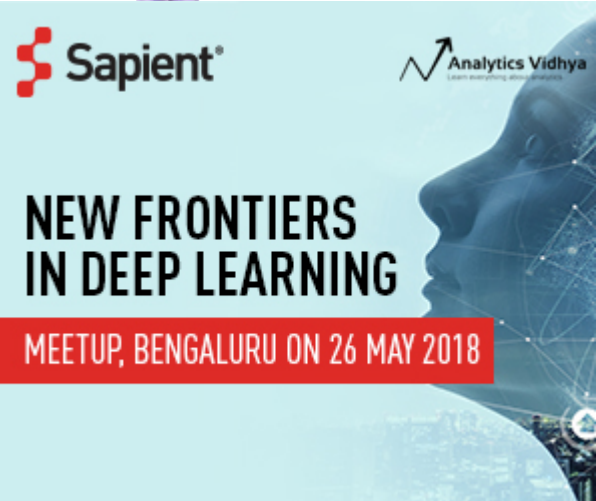
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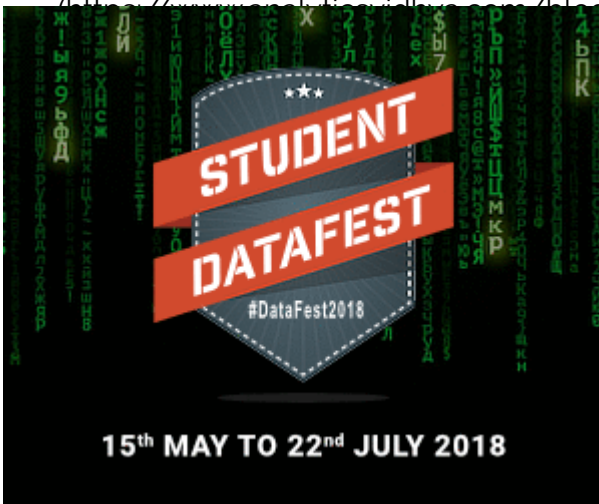
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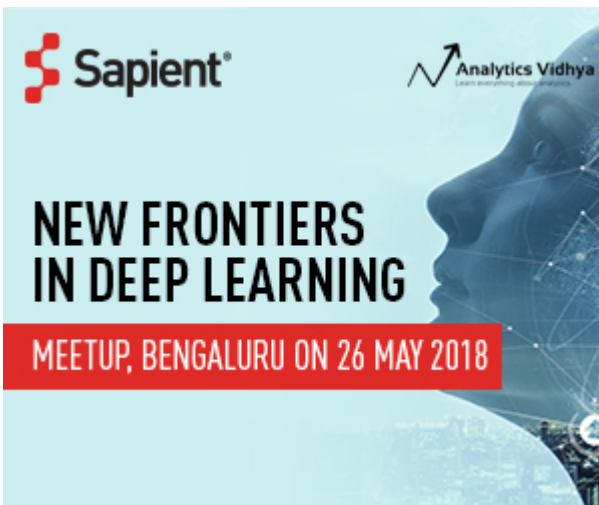
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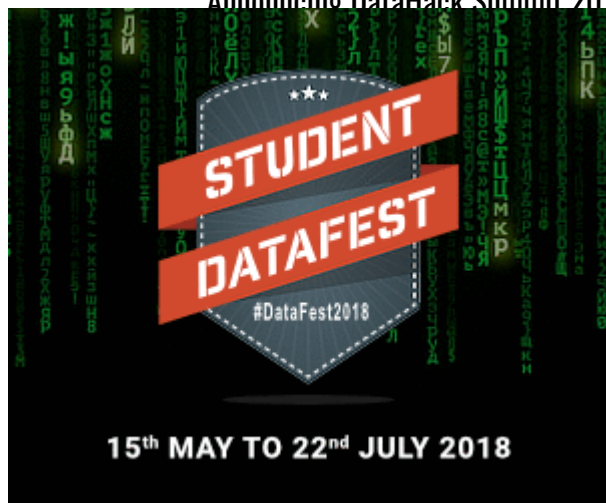
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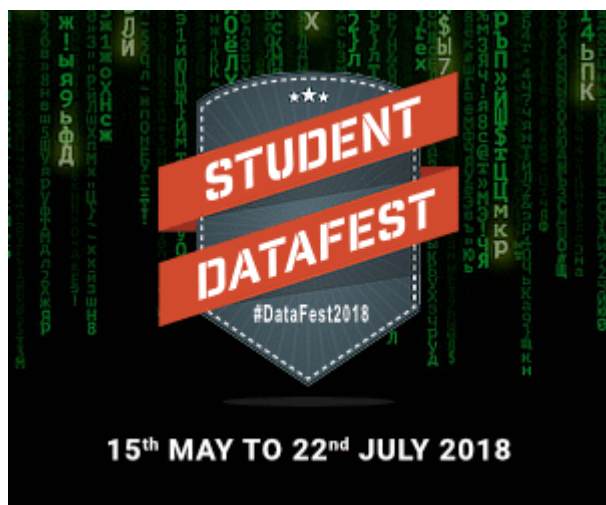
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