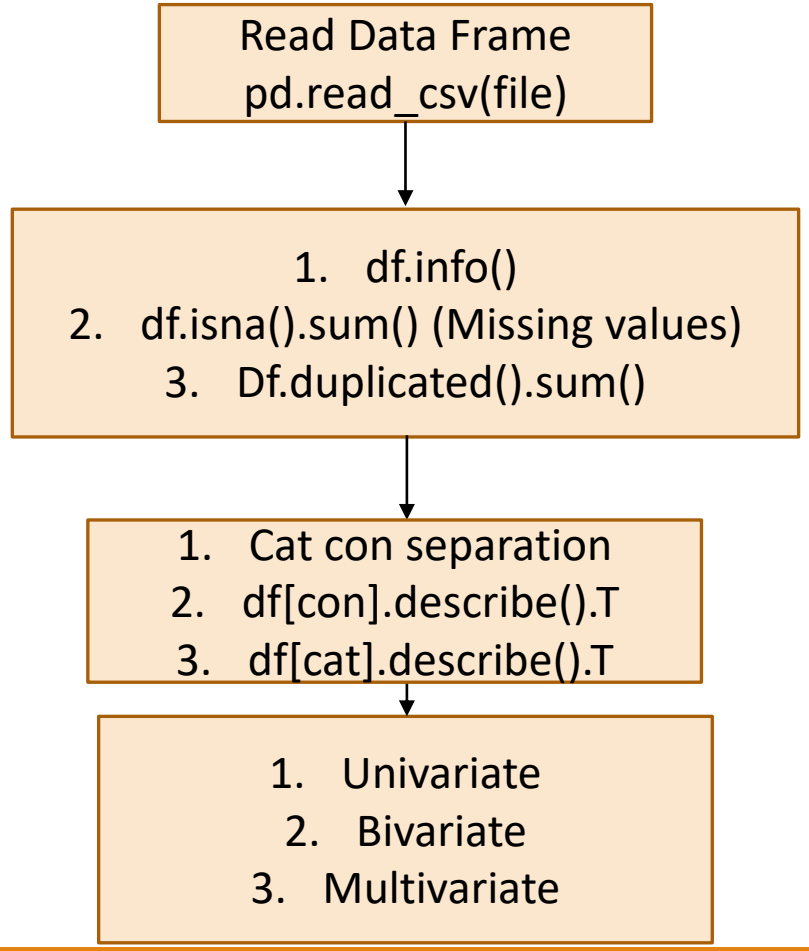
Data Analysis summary

UTKARSH GAIKWAD

Steps to follow in data analysis

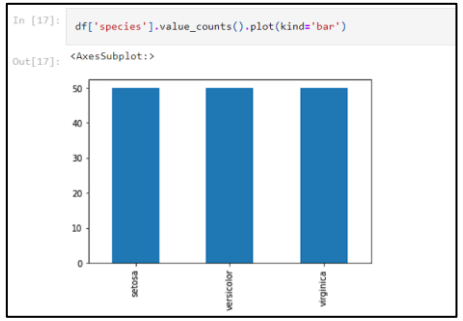


Univariate analysis

Categorical Features
(Containing Text)

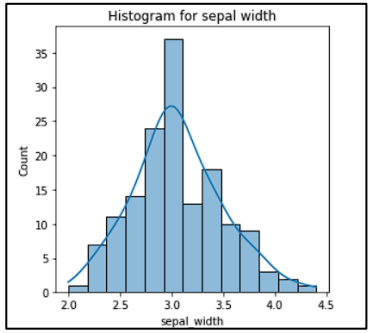
Countplot
Sns.countplot(data=df, x='column')

```
In [17]: df['species'].value_counts().plot(kind='bar')
Out[17]: <AxesSubplot:>
```



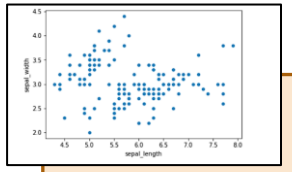
Continuous Features
(Numerical Features)

Histogram
import seaborn as sns
sns.histplot(data=df,x='column_name',kde=True)



Bivariate Analysis

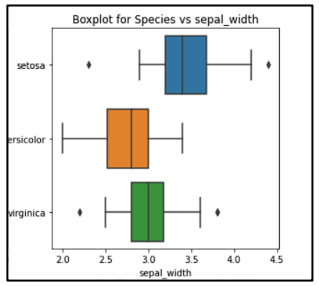
Continuous vs Continuous



Scatterplot
Import matplotlib.pyplot as plt
plt.scatter(df[‘c1’], df[‘c2’])

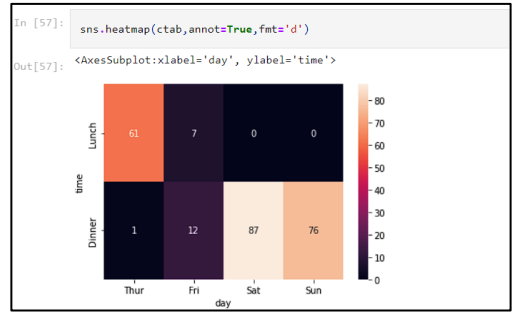
Categorical vs Continuous

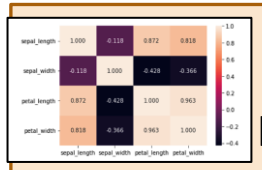
Boxplot
Import seaborn as sns
sns.boxplot(data=df, x=‘c1’, y = ‘c2’)



Categorical vs Categorical

Crosstab
ctab =pd.crosstab(df[‘cat1’], df[‘cat2’])
sns.heatmap(ctab, annot=True, fmt=‘d’)



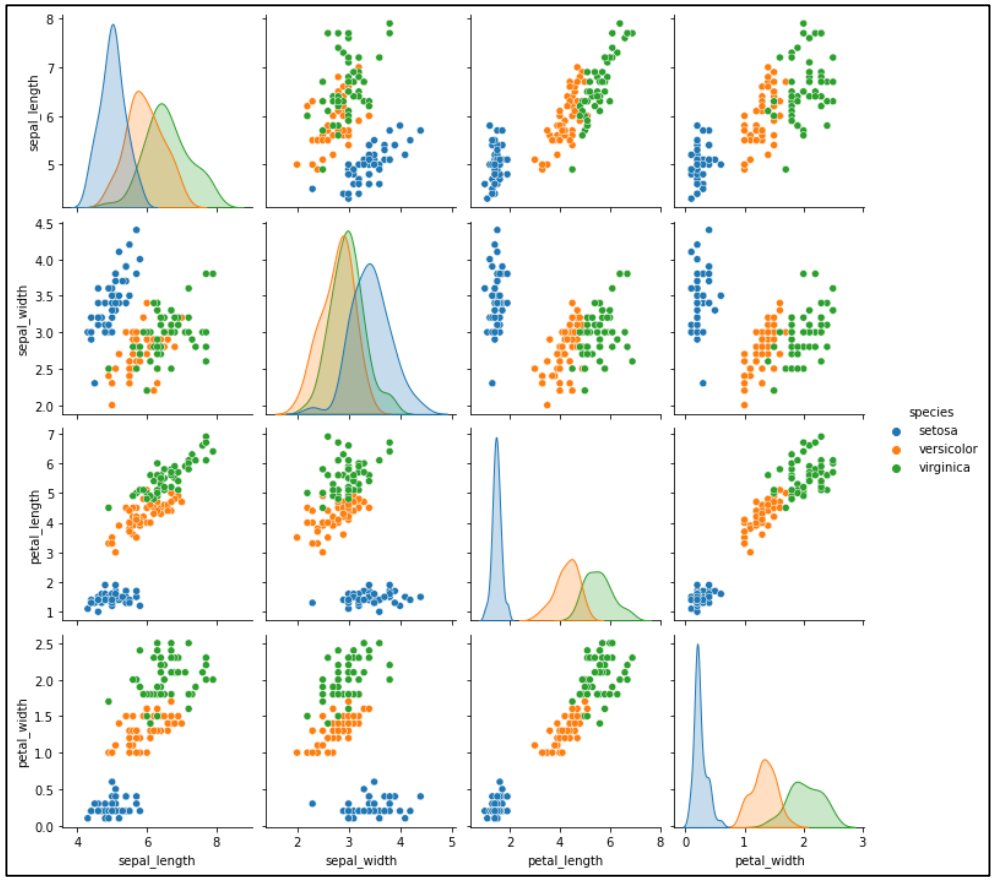


Correlation heatmap
Import seaborn as sns
sns.heatmap(df.corr(),annot=True,fmt=‘.3f’)

Multivariate analysis

All continuous variables

Import seaborn as sns
sns.pairplot(df, hue='c1')



Thank you

FOR ANY QUERIES PING ME ON SKYPE GROUP

LAST TOPIC FOR DAY DONE, ONCE PRACTICAL COMPLETED YOU CAN LEAVE FOR THE DAY