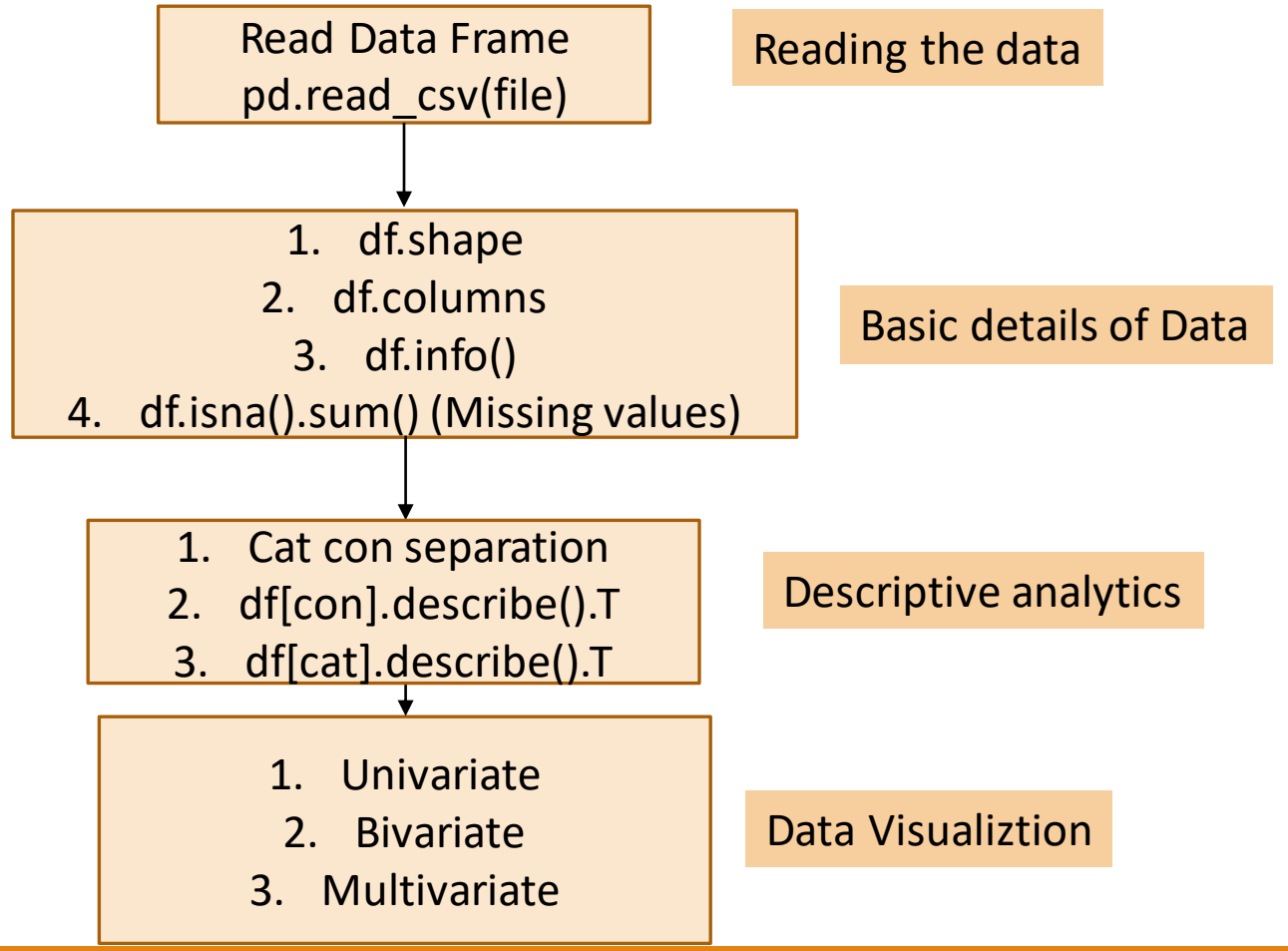
# Data Analysis summary

UTKARSH GAIKWAD

CLASS STARTING SHARP AT **6:05 PM**

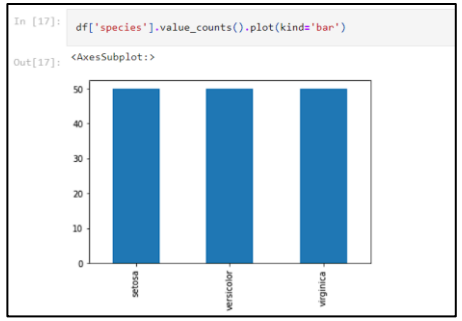
# Steps to follow in Exploratory data analysis



# Univariate analysis

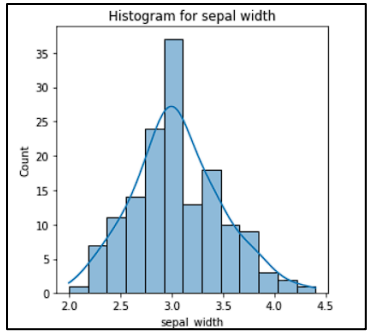
Categorical Features
(Containing Text)

Countplot
df.value_counts()
df.value_counts().plot(kind='bar')



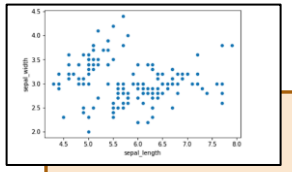

Continuous Features
(Numerical Features)

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



# Bivariate Analysis

Continuous vs Continuous

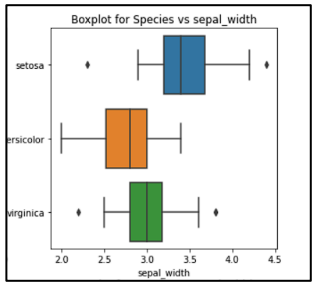



Scatterplot
Import seaborn
sns.scatterplot(data=df, x='c1', y='c2')


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

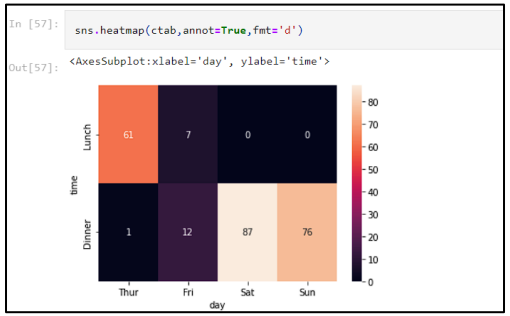
Categorical vs Continuous

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




Categorical vs Categorical

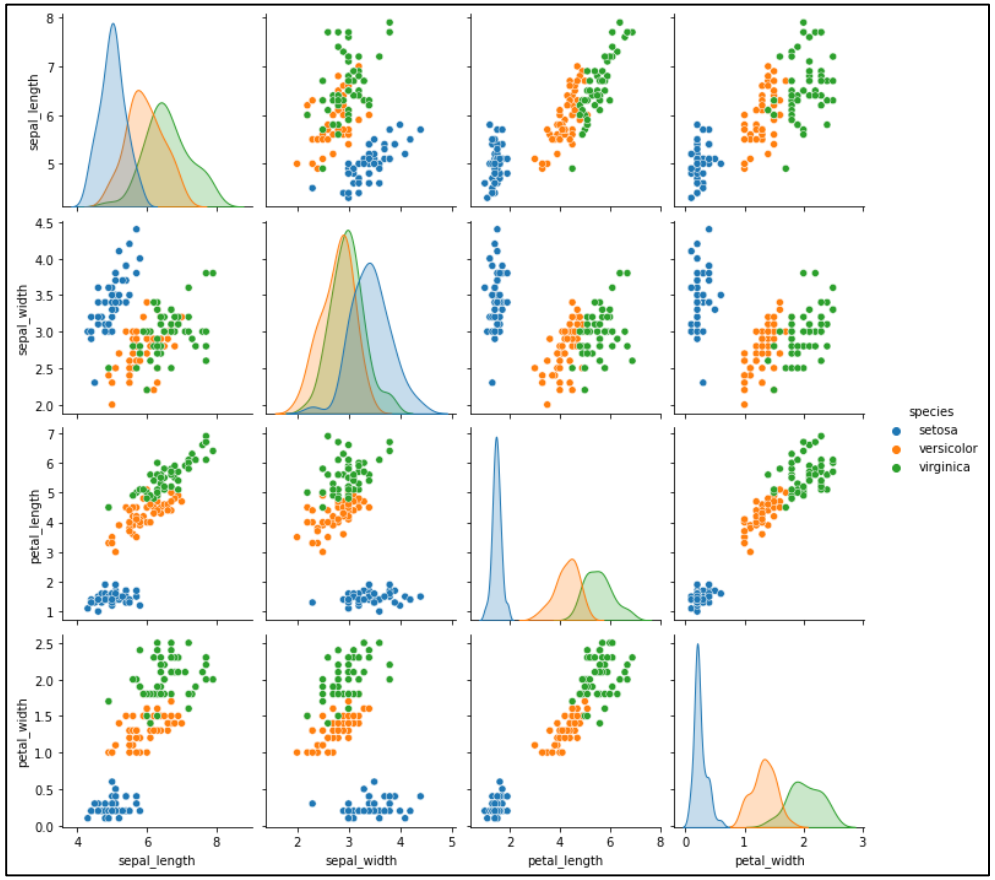
Crosstab
ctab =pd.crosstab(df['cat1'], df['cat2'])
sns.heatmap(ctab, annot=True, fmt='d')



# 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