**Exploratory Data Analysis:**

**Agenda:**1. What is exploratory data analysis?

2. Why EDA is important?

3. Visualization

3.1 Important charts for visualization

4. Steps involved in EDA:

1. Data sourcing

2. Data cleaning

3. Univariate analysis with visualization

4. Bivariate analysis with visualization

5. Derived metrics

5. Use casee

**Data Analysis/Science Process**

**Make decision**

**Data Product**

**Visualization Report**

**Model and Algorithm**

**Exploratory Data Analysis**

**Cleaned Dataset**

**Data is processed**

**Raw Data collected**

What is EDA?

1. Exploratory data analysis is an approach to analyze the datasets to summarize their main characteristics in form of visual methods.
2. EDA is nothing but a data exploration technique to understand various aspects of the data.
3. The main aim of EDA is to obtain confidence in a data to an extent where we are ready to engage a machine learning model.
4. EDA is important to analyze the data it is a first steps in data analysis processes.
5. EDA gives a basic idea to understand the data and make sense of the data to figure out the question you need to ask and find out the best way to manipulate the dataset to get the answer to your question.
6. Exploratory data analysis helps us to finding the errors, discovering data, mapping out data structure, finding out anomalies.
7. Exploratory data analysis is important for business process because we are preparing dataset for deep thorough analysis that will detect your business problem.
8. EDA help to build a quick and dirty model or a baseline model, which can serve as a comparison against later models that you will build.

Visualization: is the presentation of the data in the graphical or visual form to understand the data more clearly. Visualization is easy to understand the data.