DATA SCIENCE FUNDAMENTALS

Assignment-01

Date-07/09/23

Problem Statement - Analyze any dataset

Dataset of housing from kaggle and performed exploratory data analysis using pandas-profiling and using other python functions.

Dataset link - https://www.kaggle.com/datasets/ashydv/housing-dataset

ydata-profiling delivers an extended analysis of a DataFrame while allowing the data analysis to be exported in different formats such as **html** and **json**.

Here final report of analysis is saved in html format

Repository – click here (download housing.html file and then open to see report)

Step by Step exploratory data analysis using python functions.

- The <u>df.info()</u> function will give us the basic information about the dataset #Basic information df.info() #Describe the data- descriptive statistics df.describe()
- 2) df.duplicate.sum() function to the sum of duplicate value present if any. It will show the number of duplicate values if they are present in the data.

```
#Find the duplicates df.duplicated().sum()
```

3) find the number of unique values in the particular column using unique() function in python.

df['area'].unique()

4) Know the datatypes –#Datatypesdf.dtypes