DOCUMENTATION STRUCTURE

1. INFORMATION ABOUT MACHINE LEARNING :

- 1.1.1 Importance of Machine Learning
- 1.1.2 Uses of Machine Learning
- 1.1.3 Types of Machine Learning

2. INFORMATION ABOUT DEEP LEARNING :

- 2.1.1 Importance of Deep Learning
- 2.1.2 Uses of Deep Learning
- 2.1.3 Relation between Data Mining, Machine Learning and Deep Learning

3. INFORMATION ABOUT PYTHON :

- 3.1 Introduction
- 3.2 Setup of Python
- 3.3 Features
- 3.4 Variable Types
- 3.5 Functions
- 3.6 OOPs Concepts

4. PROJECT NAME(INFORMATION ABOUT THE PROJECT):

- 4.1 Project Requirements
  - 4.1.1 Packages used
  - 4.1.2 Versions of the packages
  - 4.1.3 Algorithms used
- 4.2 Problem Statement
- 4.3 Dataset Description
- 4.4 Objective of the Case Study

5. DATA PREPROCESSING/FEATURE ENGINEERING AND EDA

- 5.1 Statistical Analysis
- 5.2 Generating Plots
  - 5.2.1 -Visualize the data between Target and the Features
  - 5.2.2 - Visualize the data between all the Features
- 5.3 Data Type Conversions
- 5.4 Detection of Outliers
- 5.5 Handling Missing Values
- 5.6 Encoding Categorical Data

6. FEATURE SELECTION:

- 6.1 Select relevant features for the analysis
- 6.2 Drop irrelevant features
  - 6.2.1 Drop Manually (or)
  - 6.2.2 Based on Correlation
- 6.3 Train-Test-Split
- 6.4 Feature Scaling

7. MODEL BUILDING AND EVALUATION:

- 7.1 Brief about the algorithms used
- 7.2 Train the Models
- 7.3 Validate the Models
- 7.4 Make Predictions
- 7.5 Parameter Tuning(if required)
- 7.6 Predictions from raw data

NOTE: Figures and code snippets should be added for all the steps and be named as shown : Fig 4.1.1

Font Style and Sizes:

Normal text :Times New Roman Font size 12
Sub Headings : Times New Roman Font size 14
Main Headings :Times New Roman Font size 16