Chapter 3 ANALYSIS

maximum accuracy. It describes the data and explains the relationship between one dependent binary variable and one or more nominal, ordinal, interval or ratio-level independent variables. Other uses of Logistic Regression algorithm are studying engine performance from test data in automobiles, market research studies, customer survey result analysis and other business applications.

**3.3 Motivation**

The main motivation behind the selection of this project is to design, develop and implement a machine learning model that helps us to predict the stage of the cancer whether it is malignant or benign using the features provided by the user in the dataset. Also helps in reducing the eliminating human error and making the learning system more reliable and easy with higher accuracy and automated decisions to be produced.

**3.4 Software Requirements**

1. Anaconda Navigator
2. Jupyter Notebook
3. Operating system: Windows 10/7/8
4. Numpy Library
5. Pandas Library
6. sklearn Library
7. Python 3

**3.5 Hardware Requirements**

1. 32 GB ROM
2. 64-bit processor
3. 8 GB memory

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