

Walmart Abstract - Group no: 20

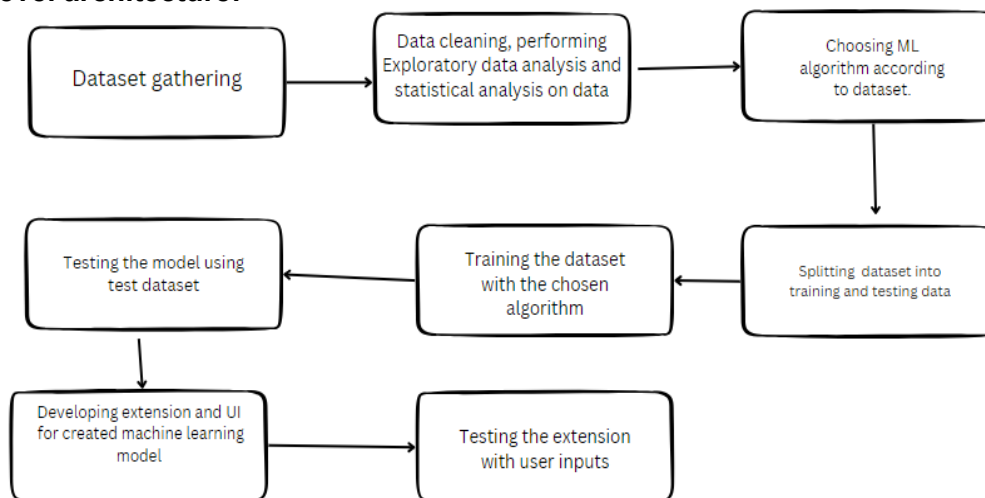
Team Members: 3

- Janhavi Patil - Final year Btech Comp
- Harit Rane -Final year Btech Comp
- Vanashri Kakad -Final year Btech IT

Theme Chosen: Machine Learning based fraud detection system.

Brief idea: Nowadays, cases of frauds and scams against fake websites are increasing day by day. Cybercriminals are becoming more sophisticated in their techniques, and the number of fraudulent websites and online scams is on the rise. Many fraudulent websites are designed to closely mimic legitimate ones, making them difficult to recognize at a glance. Hence our idea is to **develop a browser extension which is integrated with the ML model to detect any fraudulent/phishing websites before any user clicks and opens a particular website**. Therefore, when a user enters any website url, the extension will check and **classify the url link** as fraud or safe and then notify the user accordingly. Enabling this, users are prevented from being directed to scams and frauds that may initiate by opening fake & unsafe links. According to the chosen theme, our idea perfectly fits in the requirements of the problem statement, as website frauds contribute majorly to the total frauds happening around. For this idea, we will use **machine learning algorithms** such as **multinomial naive bayes** and some **nlp techniques** which will identify the url syntax and text so as to classify it accurately.

High level architecture:



Implementation plan:

