Title of the project : Data Analysis Software for Financial Fraud

Problem Statement:

Design and implement advanced Financial Data Analysis Software to analyze and process financial data from various sources, including transaction records, trading activities, and customer behavior. The goal is to identify potentially fraudulent activities.

Solution:

1. **Comprehensive Data Analysis:**
    - Implement algorithms and methods to analyze the data links and websites that use transaction on them and require financial details of user to categorize fraudent webpages.
2. **Integration of multiple data sources:**
    - The Software to seamlessly integrate information across the web about the spammy or suspicious websites to use this information to predict such websites.
3. **Real time monitoring and alerts:**
    - Enable real-time monitoring of financial data to quickly identify and respond to suspicious activity. Implement alert system to notify user of potential fraud based on predefined criteria.
4. **User friendly interface:**
    - The development involves a intuitive interface for smooth accessing of the software and slight modifications to the implementation.
5. **Security Measures:**
    - Implement robust security measures to protect sensitive financial data of user to maintain confidentiality.

Software and Technology:

1. **Programming Languages:**
    - Python, Javascript
2. **Frameworks:**
    - TensorFlow
3. **Tools:**
    - TensorFlow for image analysis
    - NLP for meta data analysis

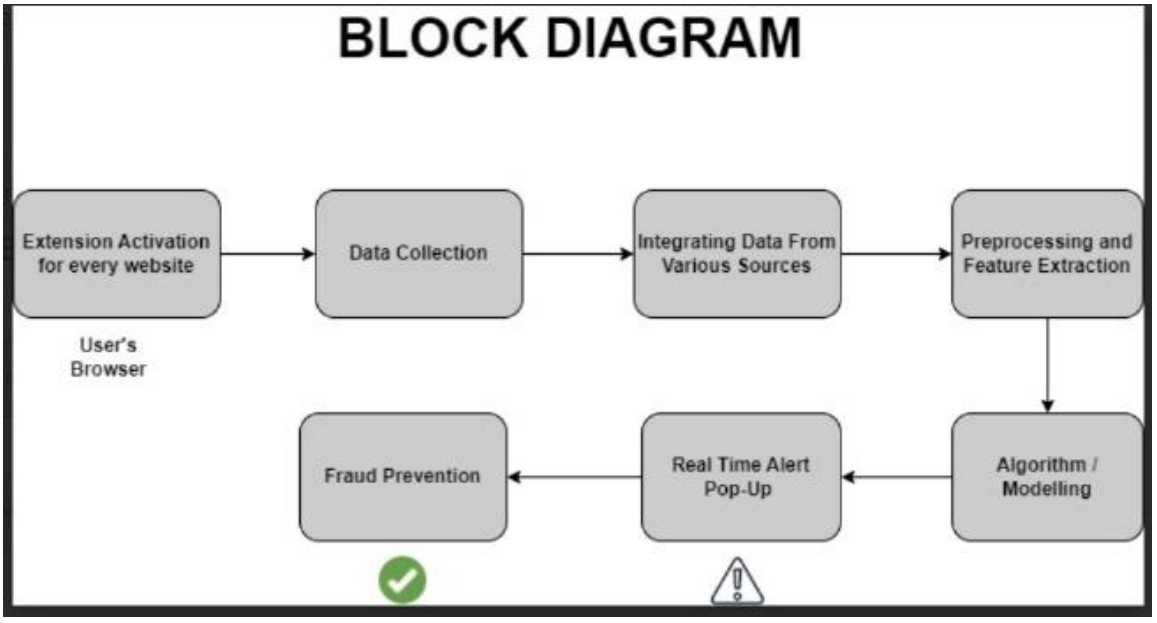
4. **Data Extraction Libraries:**
    - BeautifulSoup for data extraction
5. **Cloud Services:**
    - AWS, Google Cloud Platform
6. **Web Development:**
    - React for UI
    - Python web extension

Team Members:

- Medhansh Sharma
- Diya Ghodasara
- Harshit Jain
- Devansh Jain

Flow Chart / Graphical Representation:

Navigation for the Fraud Detection System



Schedule:

Step 1:

- Date: 4 Dec, 2023 – Brainstorming ideas on the problem statement, learning about the history and current problem in the domain. All the team members were involved.

Step 2:

- Date: 12 Dec, 2023 – Finalising the idea and estimation of the resources required, and feasibility analysis of the proposed solution, discussions about the properties like scalability, performance measures were covered by the team members.

The project is in process..