USER MANUAL

Fraudulent Transaction Detector User Manual

Date: April 30, 2025

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Introduction

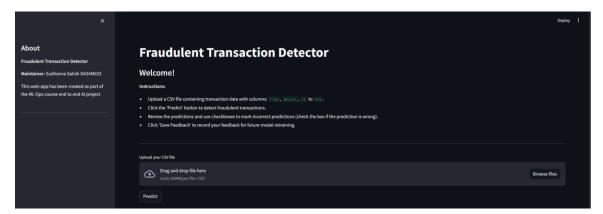
This Fraudulent Transaction Detector is a web-based application designed to analyze transaction data and predict potential fraudulent activities. It has been created as part of the end-to-end AI project of course DA5402 – ML Operations Lab at IIT Madras. This manual provides step-by-step instructions for users to upload data, generate predictions, and provide feedback.

System Requirements

- Web browser
- A CSV file with columns: Time, Amount, V1 to V28

Getting Started

- 1. Access the Application:
- Open your web browser and navigate to http://localhost:8501. This is where the webapp frontend is deployed



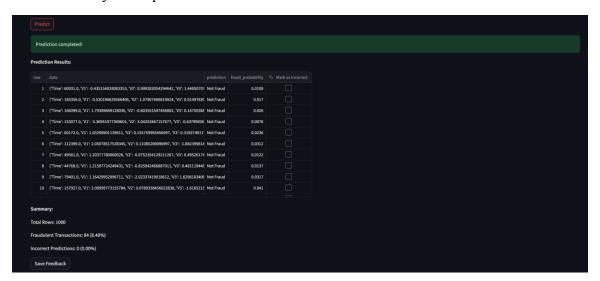
2. Upload Transaction Data:

- On the homepage, locate the "Upload your CSV file" section.
- Click the file uploader and select a CSV file containing transaction data.
- The application will display a preview of the uploaded data.



3. Generate Predictions:

- Click the "Predict" button to analyze the uploaded data.
- The application will process the data and display a table of predictions, including:
- Original data
- Prediction (Fraud or Not Fraud)
- · Fraud probability
- A checkbox to mark incorrect predictions (unchecked by default, check if incorrect)
- A summary of the predictions



4. Provide Feedback:

- Review the predictions and check the "Mark as Incorrect" checkbox for any rows where the prediction is wrong.
- Click "Save Feedback" to record your feedback. The data will be saved for future model retraining.

5. View Summary:

- After checking the feedback checkboxes, the summary will update with:
- Total rows
- Number of fraudulent transactions
- Number of incorrect predictions

Troubleshooting

- \bullet Error: Failed to parse CSV: Ensure your CSV has the correct columns (Time, V1 to V28, Amount).
- No Predictions: Verify the file is uploaded and contains valid data.
- Feedback Not Saved: Check that checkboxes are updated before saving.

Contact Support

For issues, contact the maintainer

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