**💸 UPI Fraud Detection**

A **web app** to detect **fraudulent UPI transactions** using **Flask**, **NumPy**, **Pandas**, **Matplotlib**, and **Seaborn**.

**📊 Features**

* ✅ Detect fraud in real-time
* 📈 Data visualization with Matplotlib & Seaborn
* 🌐 Simple web interface with Flask

**🗂 Dataset**

From Kaggle: [Fraud Detection Dataset](https://www.kaggle.com/datasets/amanalisiddiqui/fraud-detection-dataset?resource=download)

* Labeled UPI transactions: **fraudulent** or **legitimate**

**🛠 Tech**

* Python 3.x
* Flask
* NumPy, Pandas
* Matplotlib, Seaborn
* Scikit-learn (optional)

**🚀 Installation**

git clone <repo-url>

cd upi-fraud-detection

python -m venv venv

source venv/bin/activate # Linux/macOS

venv\Scripts\activate # Windows

pip install -r requirements.txt

Place the dataset in data/ folder.

**🖥 Usage**

python app.py

Open browser → http://127.0.0.1:5000/  
Enter transaction details → Get prediction ✅

**📁 Structure**

upi-fraud-detection/

├── app.py

├── templates/

├── static/

├── data/

└── model/