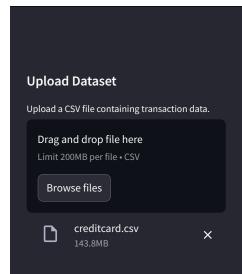# Real-Time Credit Card Fraud Detection

A web app to detect fraudulent transactions using a Decision Tree Classifier.

Upload Dataset

Upload a CSV file containing transaction data.

Drag and drop file here
Limit 200MB per file • CSV

Browse files

📄 creditcard.csv
143.8MB ✕

Dataset Preview:

	V20	V21	V22	V23	V24	V25	V26	V27	V28	Amount	Class
0	0.2514	-0.0183	0.2778	-0.1105	0.0669	0.1285	-0.1891	0.1336	-0.0211	149.62	0
1	-0.0691	-0.2258	-0.6387	0.1013	-0.3398	0.1672	0.1259	-0.009	0.0147	2.69	0
2	0.525	0.248	0.7717	0.9094	-0.6893	-0.3276	-0.1391	-0.0554	-0.0598	378.66	0
3	-0.208	-0.1083	0.0053	-0.1903	-1.1756	0.6474	-0.2219	0.0627	0.0615	123.5	0
4	0.4085	-0.0094	0.7983	-0.1375	0.1413	-0.206	0.5023	0.2194	0.2152	69.99	0

Preprocessing the Data:

Dropped 'Time' column.

Scaled 'Amount' column.

Dropped duplicates. Reduced dataset size from (284807, 30) to (275663, 30).

Training a Decision Tree Classifier...

Model Performance:

Accuracy: 1.00

Precision: 0.65

Recall: 0.70

F1 Score: 0.68

Predict Fraud for New Transactions:

Enter all feature values separated by commas (e.g., -0.425965,0.960523,...):

-2.3122265423263,1.95199201064158,-1.60985073229769,3.9979055875468,-0.522187864667764,-1.426!

Predict

The transaction is Fraudulent.