**Credit Card Fraud Detection — *imbalanced binary classification* (intermediate)**

Why: real-world problem with severe class imbalance — teaches resampling, anomaly detection techniques, specialized metrics (precision-recall, AUPRC), pipelines, and deployment concerns. Popular on Kaggle. [Kaggle+1](https://www.kaggle.com/datasets/mlg-ulb/creditcardfraud?utm_source=chatgpt.com)

What you learn: handling imbalance (SMOTE, class weights), precision/recall tradeoffs, anomaly detection baselines, model calibration, production concerns.

Difficulty / size: Medium → Large (hundreds of thousands of rows depending on the source).