**Dataset 1: Transaction fraud detection.**

**Problem:** Ever since the advent of internet the digital revolution has rising and has creeped into all aspects to our lives. One of the most important digital revolution happened in financial system and especially transacting money to someone from any part of the world digitally. Digital transactions have become a part of daily life like purchasing a product online, sending money to friends, depositing cash in bank account, investment purposes etc., They had a lot of benefits so does paved way for fraudulent activities. People started using digital money transactions medium to launder money and make the money look like it comes from a legal source.

**Reason for solving this problem now:** The objective of this project is to find the patterns of transactions performed and help algorithms learn those patterns in identifying the fraudulent transactions and flag them.

**Goals:**

1. Data Understanding: Exploratory analysis of data to extract the pattern of fraudulent activities.
2. Model Evaluation: Build a machine learning model to classify fraud and non-fraud transactions.
3. Reduce the false negatives by tuning the model.
4. Deployment: Create a user-friendly interface for transaction risk assessment.

**Dataset 2: Cardiovascular Disease prediction.**

**Problem:** Cardiovascular diseases, including conditions such as heart disease and stroke, are the leading cause of mortality worldwide. Timely identification of individuals at risk of developing CVD is crucial for early intervention and preventive measures. This project aims to develop a predictive model that can accurately assess an individual's risk of developing cardiovascular diseases based on various health and lifestyle factors.

**Reason for solving this problem now:** Solving the problem of CVD prediction is timely and crucial, offering the potential to improve public health, individual well-being, and healthcare system efficiency. The convergence of healthcare data, technology, and the pressing need to address CVD makes it an opportune moment to tackle this challenge.

**Goals:**

1. Data Understanding: Gain a comprehensive understanding of the dataset's structure and quality.
2. Feature Selection: Identify key predictors for cardiovascular disease.
3. Demographic Analysis: Assess how demographics influence CVD risk.
4. Model Evaluation: Most suitable ML algorithms for CVD prediction.
5. Deployment: Create a user-friendly interface for CVD risk assessment.