CRedit CARD FRAUD DETECTION

(ANoMALy DETECTION)  
Project ProposaL

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# Overview

## Project Background and Description

An important aspect for any anomaly detection technique is the manner in which the outliers are reported. Typically, outputs produced are in form of Scores and Labels.

## Project Scope

A general approach to anomaly detection here would involve maintaining a usage profile for each customer for credit card and monitor the profiles to detect any deviations termed as activity monitoring. Some specific applications of fraud detection are discussed below.

**Credit Card Fraud Detection:** Outlier detection techniques are applied to detect:

• Fraudulent Applications for Credit Card: This is similar to detecting insurance fraud

• Fraudulent Usage of Credit Card: Associated with credit card thefts.

The data set will be a banking transactional data.

## High-Level Requirements

• A web application which can take user input.

• User input will be used and embedded in REST API to call the Azure Web Service.

• Depending on the selection of user, web services will be invoked. The web services which include modelling of the data using different machine learning algorithm will be deployed in Azure Cloud.

• Output of the web service will be consumed by the web application in JSON format and parsed JSON data will be presented to the user.

## Implementation Plan

