**Artificial Intelligence**

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**Project Supervisor**

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**Project Title**

Credit Card Fraud Detection System

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**Description:**

For any bank or financial organization, detecting credit card fraud is of utmost importance. We need to detect potential fraud so consumers can't be charged for goods they didn't buy. So, the goal is to create a classifier that indicates whether the requested transaction is a fraud. The main objective of the system is to manage the details of Credit card, customer, transections, prediction. The project is totally admin based, that’s why only the administrator is guaranteed access. It tracks all the details of datasets, files, prediction. Basic purpose is to reduce the manual work for managing the credit card functions. In the case of the existing system, the fraud is detected after the fraud is done, that is the fraud is detected after the complaint is filed. The project will contain concepts of Artificial Intelligence and machine learning that includes Logistic Regression, Data processing, dealing with missing data and some algorithms. Project will be implemented in python as, python is an interpreted, object-oriented, high-level programming language with dynamic semantics. IDE used will be google collab as it allows users to compile all aspects of a data project in one place making it easier to show the entire process of a project to your intended audience. In addition, we will explore the use of data visualization techniques common in data science, such as parameter histograms and correlation matrices, to gain a better understanding of the underlying distribution of data in our data set. Our goal is that proposed solution should satisfy all the user requirements and should be flexible enough so that future changes can easily done based on the future upcoming requirements.