



PROJECT PROPOSAL

1. Project Title:-



Credit Card Fraud Detection Project

2. Project Scope:-

The Credit Card Fraud Detection Project aims to enhance the security of online transactions by leveraging user behavior and location analysis to identify and prevent fraudulent activities. By analyzing user spending patterns and habitual geographic locations, the system establishes a baseline for each individual's legitimate behavior. This baseline allows the system to detect deviations from the norm, enabling the identification of potential fraud.

The project's core functionality involves real-time monitoring of credit card transactions. When a user initiates a transaction, the system compares the transaction details with the user's historical spending behavior and established geographical locations. If any unusual patterns or deviations are detected, such as transactions from unfamiliar locations or atypical spending amounts, the system triggers an alert for further investigation.

The integration of machine learning algorithms and data analysis techniques plays a pivotal role in the project's success. These tools allow the system to continuously learn and adapt to new patterns of fraud, staying ahead of evolving fraudulent strategies. In cases where suspicious activity is confirmed, the system prompts for additional verification steps, providing an added layer of security.

Overall, the Credit Card Fraud Detection Project aims to provide a comprehensive solution that safeguards users from unauthorized transactions. By combining behavioral analysis and location tracking, the system mitigates the risks associated with credit card fraud, enhancing user confidence in online financial transactions.

3. Requirements:-

- Python IDE
- Prerequisite Knowledge of python language.
- Prerequisite Knowledge of Machine learning.
- Past Datasets of Credit card Spending.

STUDENTS DETAILS

Name	UID	Mobile Number	Signature
Ankush Singh Bisht	21BCS6681	8118993444	
Kunal Wadhwa	21BCS6631	9352925321	

APPROVAL AND AUTHORITY TO PROCEED

We approve the project as described above, and authorize the team to proceed.

Name	Title	Signature (with Date)
Prabjot Singh Bali	Supervisor	