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**Project Proposal: Fraud Analysis in Canada**

**Introduction**

Fraud is an escalating issue, costing Canadians millions each year. Our project will examine fraud patterns, predict victimization risks, and visualize hotspots using machine learning and data analytics to improve fraud prevention strategies.

**Objective**

To identify fraud trends, assess financial loss risks, and develop predictive models using Open Canada’s Fraud Dataset.

**Scope**

* Analyze fraud trends across provinces and solicitation methods.
* Construct predictive models for fraud victimization and financial loss forecasting.
* Develop interactive dashboards for real-time fraud insights.

**Data & Methods**

* **Machine Learning**: Train models for fraud prediction and loss estimation.
* **Visualization Tools**: Leaflet, Plotly, Seaborn, and Tableau.
* **Data Cleaning & Structuring**: Handle missing values and normalize financial loss categories.

**Stakeholders & Impact**

* **Law Enforcement & Government**: Identify high-risk fraud zones and optimize resource allocation.
* **Financial Institutions**: Strengthen fraud detection and enhance consumer protection.
* **Public Awareness**: Educate citizens on fraud tactics and preventive measures.