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# Machine Learning Research Paper Proposal

The research paper I intend to present in the course of Machine Learning Fall 2019 is “**Crimes Analysis Through Machine Learning**”. The paper is also attached with the zip file.

Introduction:

This paper investigates machine-learning-based crime prediction. Machine-Learning-based crime analysis usually involves data collection, classification, pattern identification, prediction and visualization. Traditional data mining techniques – association analysis, classification and prediction, cluster analysis and outlier analysis – identify patterns in structured data while newer techniques identify patterns from both structure and unstructured data. The main objective is to create a prediction model that can accurately predict crime.

Motivation:

I have always been a fan of criminal investigation serials like NCIS etc., and has always been fascinated by the work of Forensic scientists.

Dataset:

The dataset used is Vancouver crime data from 2003-2018 (15 years data);

The data-file name: crime.csv of 56.1 Mbps is with me.

Techniques & Models used:

Two classification algorithms, K-Nearest neighbor and boosted decision tree were used to analyze the VPD crime dataset compiled between 2003 and 2018 with a crime prediction accuracy between 39-44%.