HCL INTERNSHIP

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Title:-

Crime prediction for large cities

Much of the current work is focused in two major directions

- predicting surges and hotspots of crime,

- Understanding patterns of criminal behavior that could help in solving criminal investigations

Objective:-

the objective of work is:

- predicting crime before it takes place.
- predicting hotspots of crime
- Understanding crime pattern
- classify crime based on location
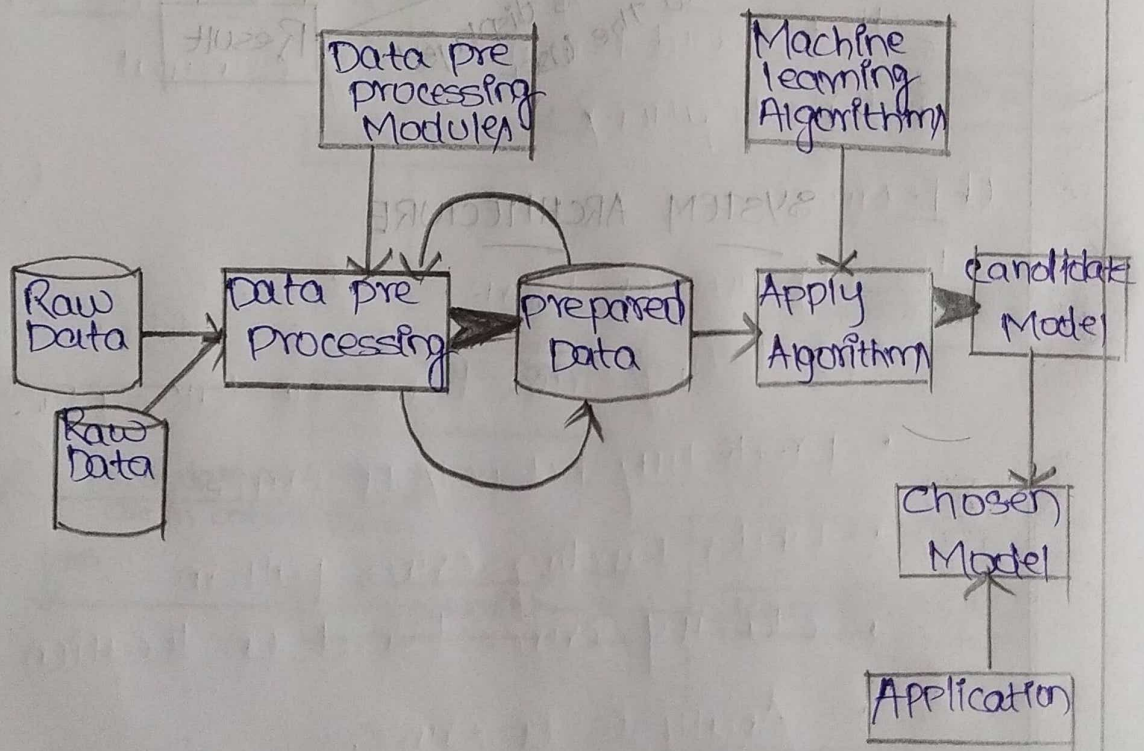- Analysis of crime.

Scope:-

the goal of any shouldn't be to just catch criminals but to prevent crimes from happening in the first place

Methodology

After the preprocessing described, we had three different classifications problems to slove, Which we proceeded to attack with an assortment of classification algorithms.

- KNN (K-Nearest neighbors)
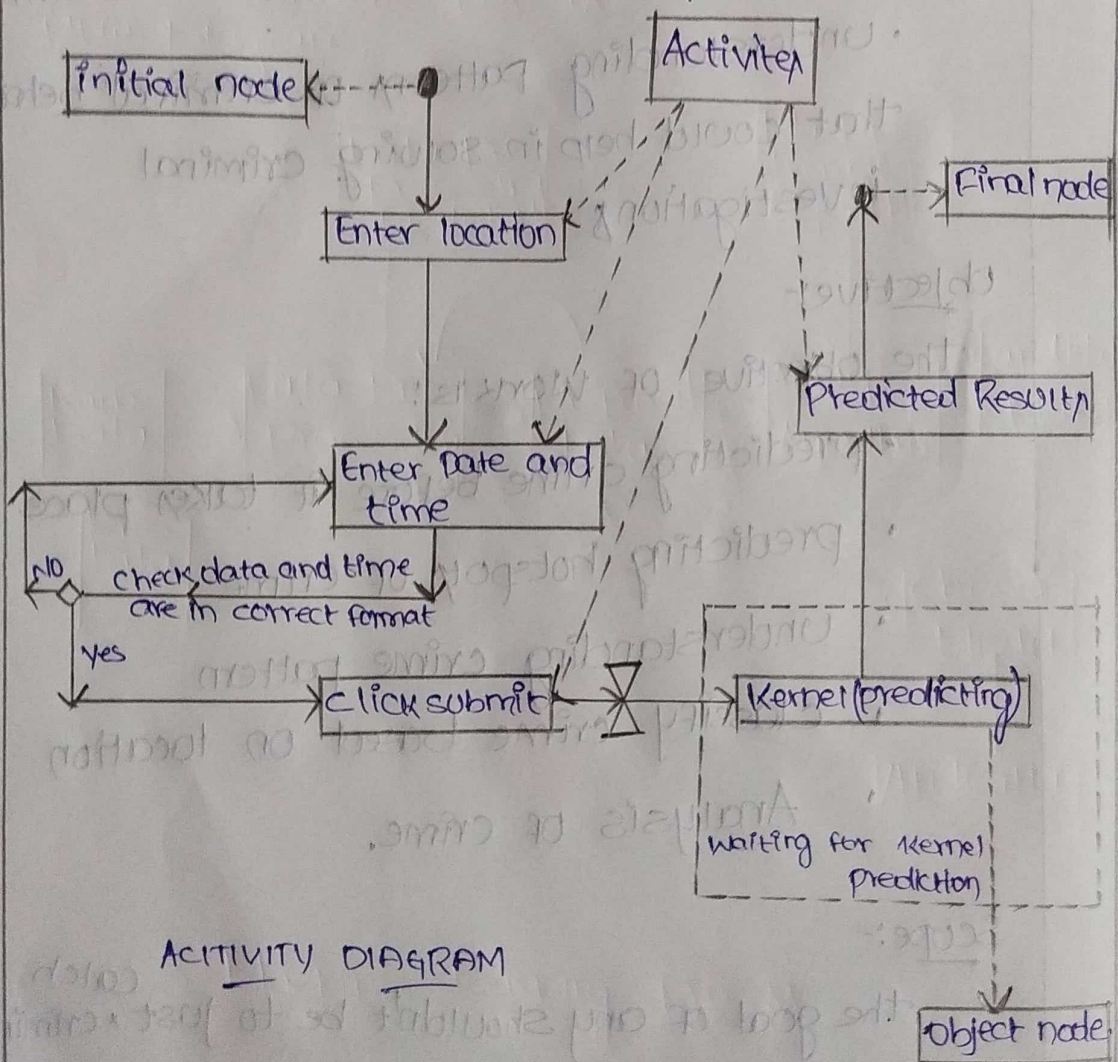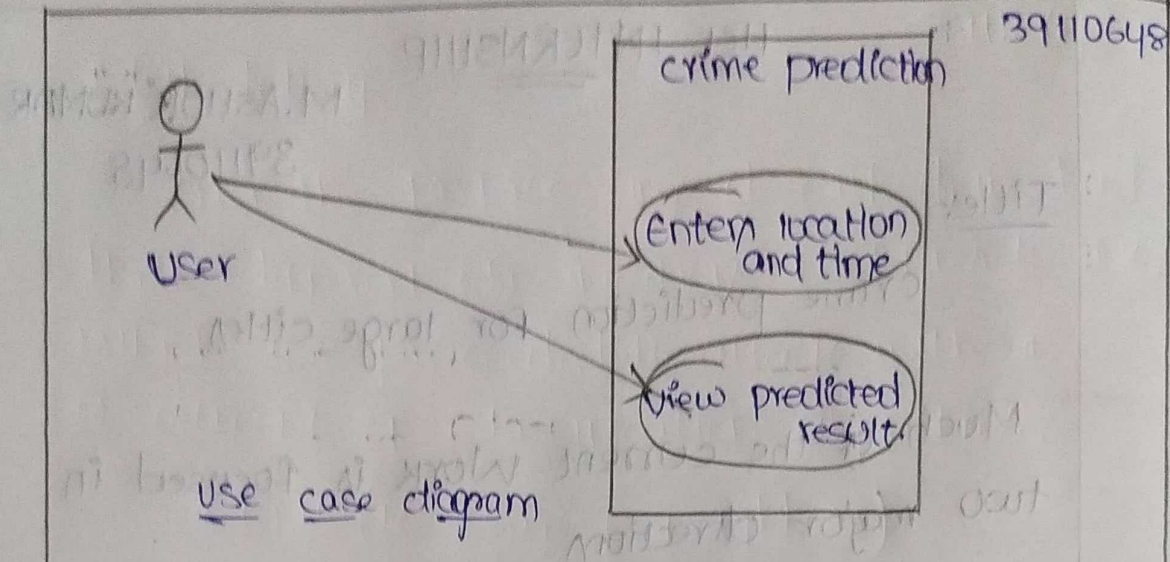- Decision Tree
- Random Forests

Flow Diagram :-

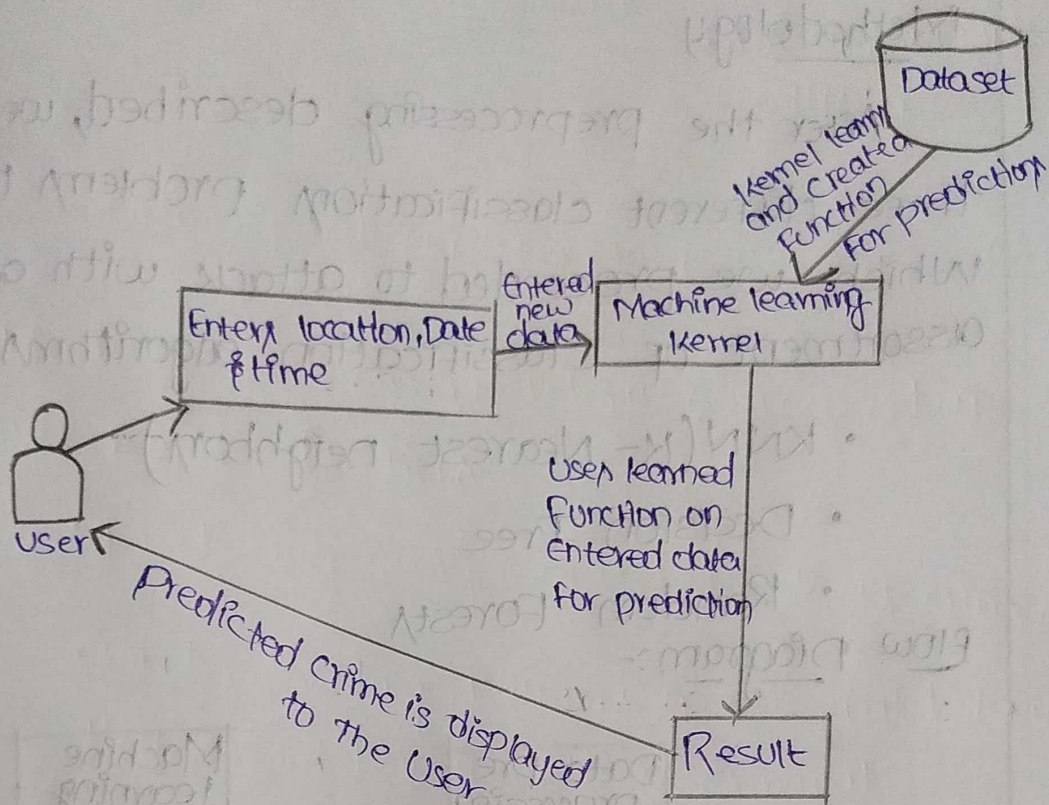|	Data pre processing Modules		Machine learning Algorithms

Raw Data	Data pre Processing	Prepared Data	Apply Algorithm	candidate Model

Raw Data

Chosen Model

Application

Machine learning process

crime prediction

Enter location
and time

View predicted
result

User

use case diagram

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initial node

Activity

Final node

Enter location

Predicted Result

Enter Date and
time

NO Check data and time
are in correct format

yes

Click submit

Kernel (predicting)

waiting for kernel
prediction

ACITIVITY DIAGRAM

object node

39110648

SYSTEM ARCHITECTURE