

HCL INTERNSHIP - MINI PROJECT

Title : Crime prediction for large cities

Crime analysis is a methodical approach for identifying and analysing pattern trends in crime. With the increasing origin of computerized systems, crime data analysts can help the law and enforcement officers to speed up the process of solving crimes.

- Using the concept of Machine Learning, we can analyze previously unknown, useful information from an unstructured data.

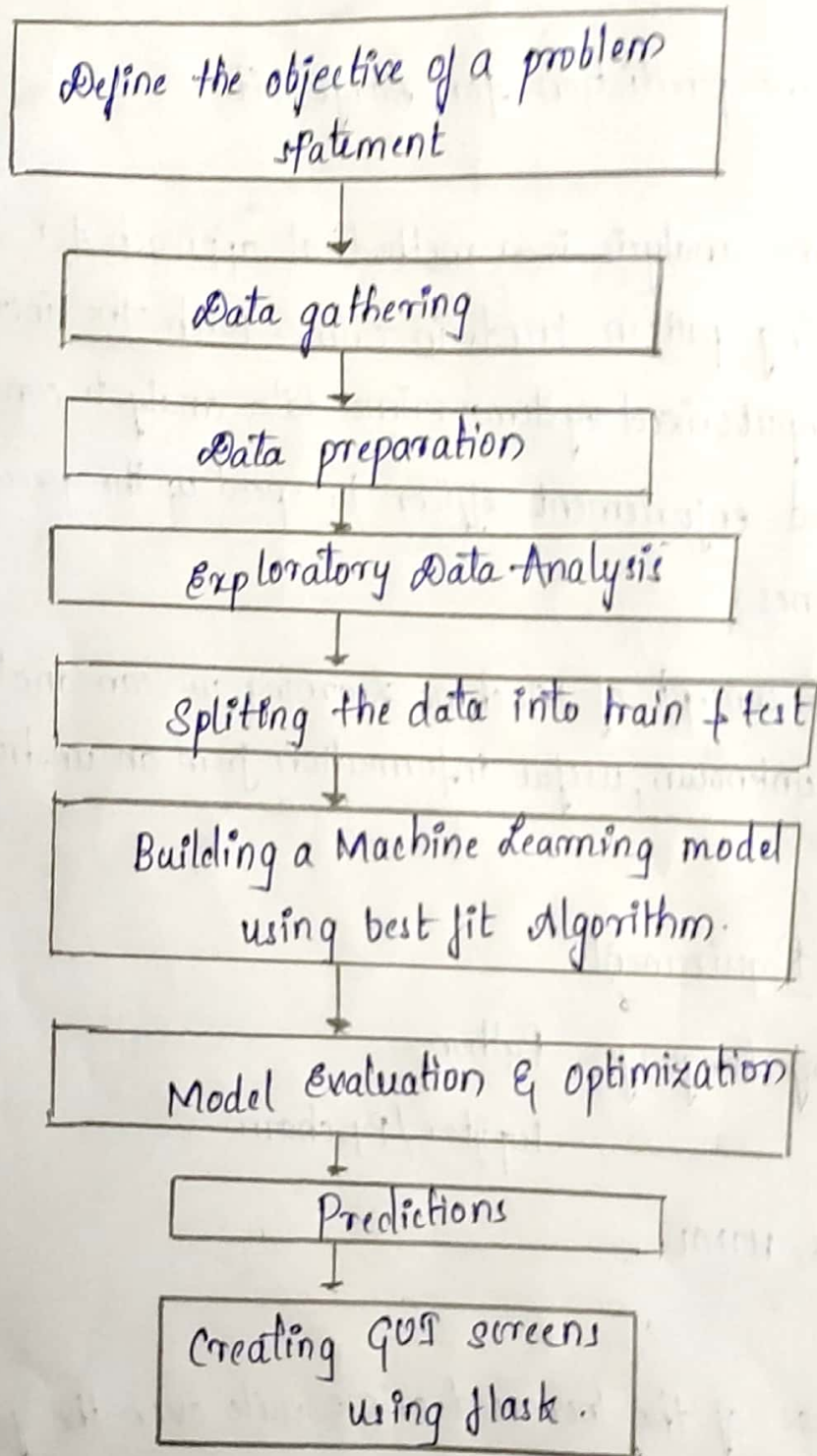
Software Requirements

- * Programming Language - Python
- * IDE - Jupyter / Py charm
- * Flask, CSS, HTML.

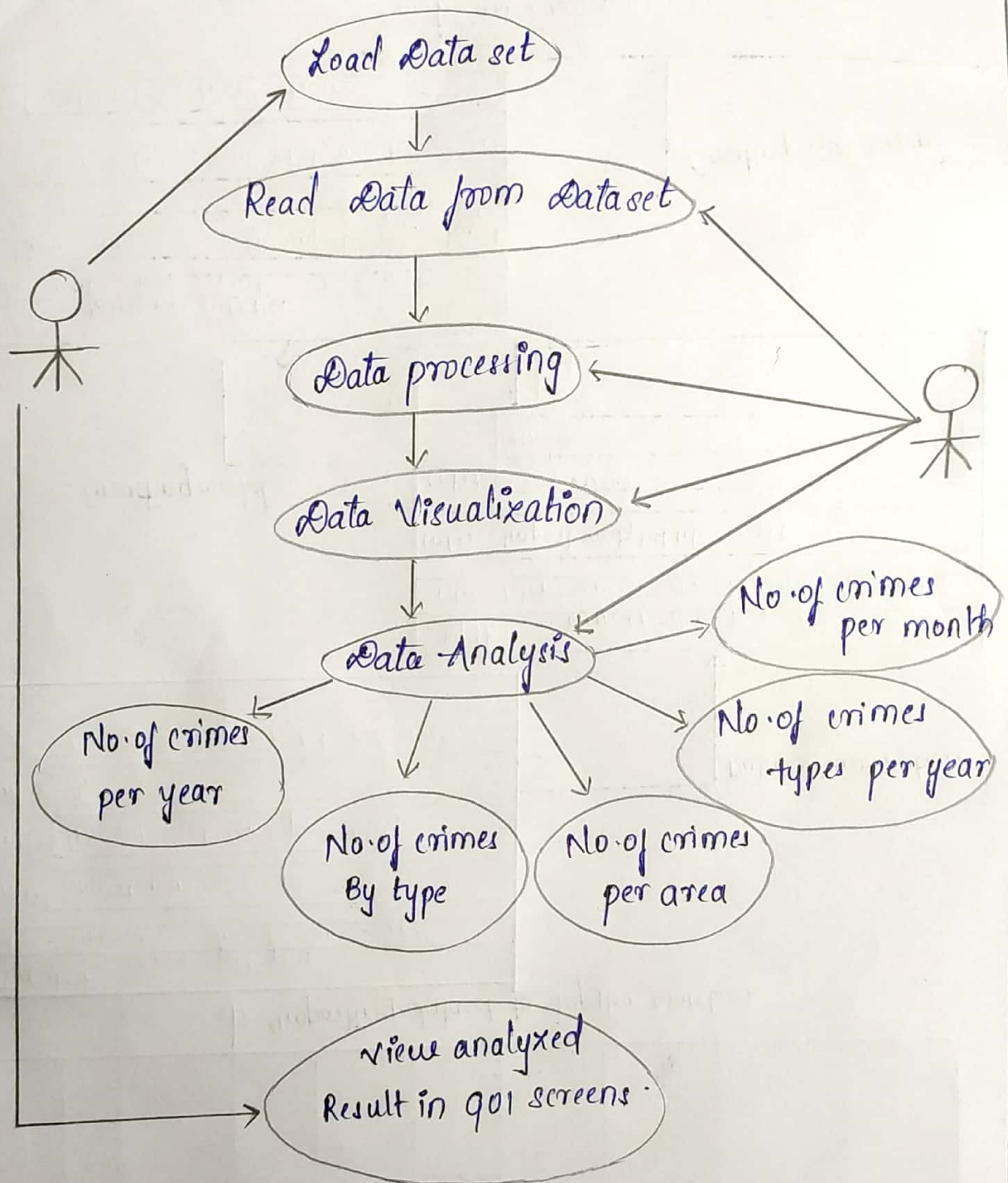
Scope:

Because of the increased crime rate over the years, we will have to handle a huge amount of crime data stored in warehouses which would be very difficult to be analysed manually, so there is a need to use advance technologies in order to keep police ahead of them. Purely based on the crime analysis using Machine Learning Algorithm.

Control Flow Diagram



UseCase Diagram



Ideation Map

Unnamed	ID	Case number	Date	block	LOCK	Primary type	Arrest	District	Location
1	1050-8693	H2250496	3/3/2016	03XXS SAWYER AVE	0486	BATTERY	True	10.0	Apartment
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-

Importing dataset to Jupyter Notebook

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Jupyter Mini Project HCL
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In(1) import pandas as pd
In(2) df = pd.read_csv("productivity.csv")
In(3) df

```

ID	C.N	Date	block	LOCK	P.T	Arrest	District	Loc

Data Visualisation

Creating model

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In(4) import matplotlib as plt
In(5) x = np.array()
      y = new()
      plt.show()

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In(6) from sklearn.ensemble import RandomForestRegression
In(7) x_train, x_test y_train y_test = train_test_split()
In(8) model_fit (x_train) y_train

```

Creating GUI Screens

enter case number

enter Location

enter District

Result

THANK YOU