

Crime prediction Analysis

by

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Taken dataset from website of
chicago

- ⇒ Using this dataset it is possible to predict the crime type with the help of machine learning.
- ⇒ Analyse the data and identify the crime type
- ⇒ This attempt to prevent crimes in future by making use of prediction done in comparison with data by applying machine learning algorithm.

First Step ⇒ Data Preprocessing

Data mining done on the data
to transform the raw data into
the understandable format.

Preprocessing:

Null sets are dropped.

Models used to Visualize

- Linear Regression Analysis
(Accuracy obtained will be very low)

- Logistic Regression Analysis

(Accuracy greater than Linear Regression)
but still this is not the best model.

- SVM Analysis

- Decision tree Analysis

(Best method) Problem \Rightarrow Overfitting

- Random forest Analysis

(error \rightarrow being low) best model for the
analysis of the dataset.

- Neural Network Analysis.

- Unsupervised Learning Analysis.

k-means clustering.