BVRIT HYDERABAD
College of Engineering for Women
Department of Information Technology
Mini Project - Academic Year 2022-23

TEAM 17

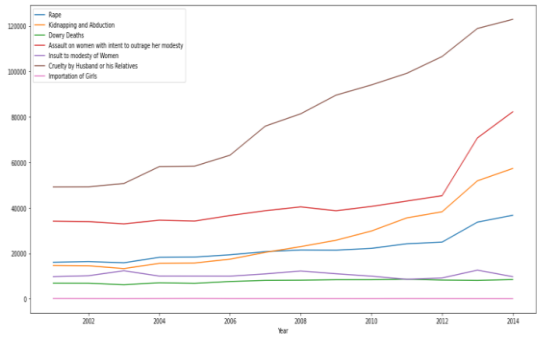
Crime Analysis and Prediction against Women

Abstract

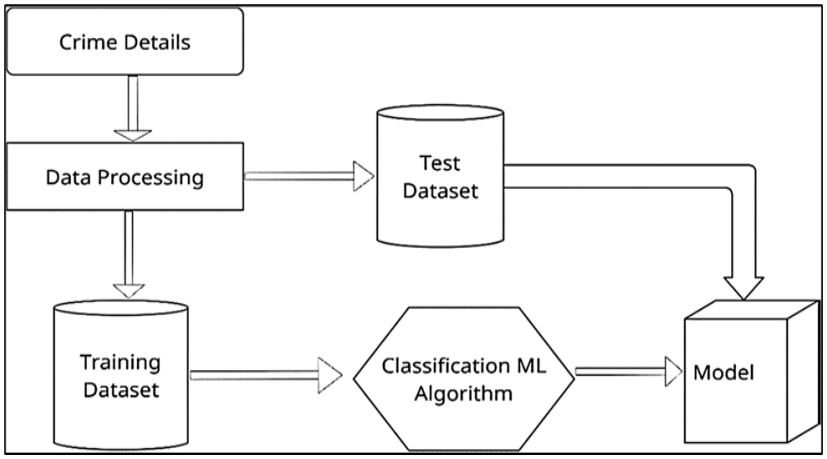
Crime against women is one of the dangerous aspects of our society which is growing continuously in intensity and complexity. The primary objective of this project is to distinguish various crimes using clustering techniques based on the occurrences and regularity. In this project, the crime data is classified using the K-means clustering algorithm, Linear Regression and ARIMA model. This proposed system can indicate the crime ahead which has a high probability of crime and thus effectively help in significantly reducing the crime rate in various parts of the country.

Modules

Data Preprocessing
Data Analysis
Training Model
Comparison Results



Architecture



Tools and Technologies

- **Python**
- **Jupyter Notebook**
- **Matplotlib**
- **Pandas**
- **Numpy**
- **sklearn**

Conclusion and Future Scope

In this project, we produced competitive results by predicting which type of crime may occur in future. Here, analysis of crime and prediction are performed with the help of various approaches. In this system, we get to classify and cluster to improve the accuracy of location and pattern- based crimes. This software predicts frequently occurring crimes, especially for particular state, and occurrences.

Github links

1. https://github.com/spoorthiadapa
2. https://github.com/riafathima
3. https://github.com/Suprajardy17
4. https://github.com/19wh1a1256

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