CRIME DETECTION AND SUPPORTING SYSTEM (CDSS)

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1. *Project Overview?*

Crime date analytic platform performs descriptive and predictive analysis of crime data and provide user friendly and effective ways to analyse crime data. To make crime data analysis feasible and effective a web application has been developed to interact with the users.

Here we introduce a system by which crime rate can be reduced using the K-means algorithm which plays an important role in analyzing and predicting crimes. More over the above functionality it is a system which will provide a facility to report a case under any desired police station. The data about the criminals are available, which may helpful for the future investigations. Not only that the details about the officers are available. Complete report about the investigation of the closed cases is available for the further reference.

1. *To what extend the system is proposed for?*

In today’s world security is an aspect which is given higher priority by all political and government worldwide and aiming to reduce crime incidence. So In this system crime analysis is done by performing k-means clustering on crime dataset using rapid miner tool these approaches will be useful and supports police force. Crime date analytic platform performs descriptive and predictive analysis of crime data and provide user friendly and effective ways to analyse crime data. This system provides the features - upload a crime data set, reporting /filing of cases by the public, upload of the criminal details for future comparison for the police, a report on the closed crime files, report of the police officers and the investigation team.

1. *Specify the Viewers/Public which is to be involved in the System?*

There are mainly 2 Viewers are involved in the system. They are listed out below:

* Officers
* Public

1. *List the Modules included in your System?*

* Registration
* Prediction
* Reporting cases
* Criminal Details

1. *Identify the users in your project?*

* Admin
* Officers
* Public

1. *Who owns the system?*

Superintendent of Police (SP)

1. *System is related to which firm/industry/organization?*

Kerala State Police Department

1. *Details of person that you have contacted for data collection?*

* <https://nevonprojects.com/crime-rate-prediction-using-k-means/>
* [*https://www.youtube.com/watch?v=7Ly7yAzLDjA*](https://www.youtube.com/watch?v=7Ly7yAzLDjA)

1. *Questionnaire to collect details about the project? (min 10questions, include descriptive answers, attach additional docs (e.g. Bill receipts, certificate models), if any?)*
2. *Does the civilians need to register to file a case?*

No, reporters can directly login to the system and file their case providing their details and selecting the station to which the case need to be filed.

1. *Does the system provide any other functionality to users?*

No

1. *In which level the system is implemented?*

System is implemented in district level.

1. *Who is responsible for the approval of reported cases?*

SI

1. *How is security ensured in case of sensitive datas ?*

Sensitive data are encrypted using DES encryption method which makes these data highly secure.

1. *What are the procedures to be followed for approval of a reported case?*

The reporter should reach the station to which the case is filed as per the time and date allotted to them. And the SI approves/rejects the case enquiring the genuinity of the case in their presence.

1. *Who enters the criminal details?*

Admin

1. *Is all the closed case recorded for future reference?*

The crime cases arising are being rated and the cases above 5 star rating is recorded for future reference as they belong to highly offensive crime category.

1. *Does all types of crime details are used for prediction ?*

No

1. *What is the need of prediction in the system?*

Prediction helps to reduce the crime rate and assign duties to the officers on basis of the prediction made.