Synopsis

Of

MCA Summer Project

On

**“THE CRIME AGAINST WOMEN IN INDIA”**

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1. **INTRODUCTION**

The title of the project is **“The Crime Against Women in India”**. It has become a prominent topic of discussion in India in recent years. The Ministry of Home Affairs, Department of States and National Crime Records Bureau (NCRB) have collected the data.

The data refers to State/UT wise crime committed against women categorized by different crime heads during the years 2001-2012. The different crime heads covered are Rape, Kidnapping and Abduction, Dowry Deaths, Assault On Women with Intent to Outrage Her Modesty, Insult To The Modesty Of Women, Cruelty By Husband Or His Relatives (IPC Section 498A) and Immoral Traffic (Prevention) Act, Indecent Representation Of Women (P) Act.

1. **OBJECTIVES**

The main objective here is to understand whether the rate of Crime against Women has increased or decreased during year 2001-2012 and which state or district has maximum crime rate.

We took our data from ‘data.gov.in’, about “The Crime Against Women”, It will focus on the comparative analysis of Crimes in states and districts of India. We downloaded training and test dataset as .xlsx file having two sheets.

1. **TOOLS/PLATFORM**

This project will be developed using the tools, which are most suited for analysis of data. These tools are as follows: -

* Anaconda (jupyter Notebook).
* Microsoft Office(MS-Excel)

1. **RECOMMENDED HARDWARE & SOFTWARE REQUIREMENT**

* **HARDWARE:**

|  |  |  |
| --- | --- | --- |
| **S.No** | **Hardware** | **Specification** |
|  | Processor: | Pentium-II or higher533 MHZ |
|  | Hard Disk Space | 320 GB |
|  | Ram Memory | 2GB |

* **SOFTWARE:**

|  |  |  |
| --- | --- | --- |
| **S.No** | **Hardware** | **Specification** |
|  | Operating System | Windows 95/98/NT/2000 |
|  | Data Set | Excel file |
|  | Front end | Python |

1. **METHODOLOGY**

**DATA SET**

1. **File Reading:** Importing the data into the Jupyter file.
2. **Creation of Data Set:** The data set we have used is from ‘data.gov.in’. It has various attributes like:

**SHEET-1**

* STATE/UT.
* CRIME HEAD.
* YEARS (2001-2012).

**SHEET-2**

* STATE/UT.
* DISTRICT
* YEARS(2001-2012)
* Rape
* Kidnapping and Abduction
* Dowry Deaths
* Assault on women with intent to outrage her modesty
* Insult to modesty of Women
* Cruelty by Husband or his Relatives
* Importation of Girls.

1. **Data Cleaning:** The goal of data cleansing is to achieve consistent, complete, accurate, and uniform data. Data cleansing techniques are usually performed on data that is at rest rather than data that is being moved. It attempts to find and remove or correct data that detracts from the quality, and the usability, of data.

We have use methods like:

* Handling Missing Values.
* Handling Duplicate Values.
* Handling the Format of Attributes.

1. **Data Manipulation:** The data manipulation capabilities of pandas are built on top of the numpy library.Data manipulation tasks in python is intuitive syntax and flexible data structure, it's easy to learn and enables faster data computation.

**PHASES UNDERTAKEN FOR DATA ANALYSIS**

1. **Analysis of Total case of specific crime year-wise.**

User enters the crime name specified in the given list of crimes. On execution of

code it displays a bar graph through which we can analyze the year in which

maximum crime occurs.

1. **Analysis of crime incidences State-wise in a specified year.**

User enters the year and the graph displays state-wise crime in that specified year.

We can analyze the state in which maximum crime incidences occurred in given

year.

1. **Analysis of increase in crime from year 2001 to 2012.**

It displays the stacked bar graph of year 2001 and 2012 and we can analyze the

increase or decrease in the crimes in the year 2001 and 2012.

1. **Analysis of Crime cases in a specified state and year.(using sheet 2)**

User enters a state and a specific year. On execution of code pie chart shows all crime incidences of given state for a given year.

1. **Analysis of crime incidences District-wise of a given state. (using sheet 2)**

User enters state and crime. On execution of code, the bar graph displays specified crime (district-wise) for year (2001-2012).

1. **FUTURE SCOPE OF THE PROJECT**

We can add more questions to analyze the Data. We can use data mining concepts to enhance functionality and features of this analysis. We can also use GUI application to make it more interactive

1. **REFERENCES**

* [*https://www.google.com/*](https://www.google.com/)
* [*https://data.gov.in/catalog/crime-against-women*](https://data.gov.in/catalog/crime-against-women)
* [*https://data.gov.in/catalog/district-wise-crimes-committed-against-women*](https://data.gov.in/catalog/district-wise-crimes-committed-against-women)