

Analysis of Human Trafficking Crime Statistics Across India

TEAM SELF EVALUATION REPORT

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INTRODUCTION

This self evaluation report covers the year beginning January 6, 2020 and ending April 24, 2020. During this period the subject CS F415 Data Mining was introduced as Elective for 2019-2020 Second Semester. With the subject offering great interest and knowledge we enrolled into it as soon as we got a chance to register for it.

Definition: In simple words, data mining is defined as a process used to extract usable data from a larger set of any raw data. It implies analysing data patterns in large batches of data using one or more software. Data mining has applications in multiple fields, like science and research. As an application of data mining, businesses can learn more about their customers and develop more effective strategies related to various business functions and in turn leverage resources in a more optimal and insightful manner. This helps various businesses and Institutions be closer to their objective and make better decisions. Data mining involves effective data collection and warehousing as well as computer processing.

Description: Key features of data mining:

- Automatic pattern predictions based on trend and behaviour analysis.
- Prediction based on likely outcomes.
- Creation of decision-oriented information.
- Focus on large data sets and databases for analysis.
- Clustering based on finding and visually documented groups of facts not previously known.

ACHIEVEMENTS AND CHALLENGES

With the project being announced we got right into it and formed a group with me(Srihari Reddy),Manas Reddy and Amritha Dude to form Team 30. With little idea to none idea on Python and how to use it to code our project we began by leaning python from scratch.It was great learning experience and all of us picked up python quickly.We began to understand how powerful python is and how influential it will be in the time to come.We split up the work between ourselves and picked up the topic Analysis of Human Trafficking Statistics across India which we felt was the most important thing that needs to be adressed in India with recent cases like Nirbhaya greatly influecing us.After picking up the topic and collecting its related datasets we began to split up the work among us.Then we had to face a major challenge a team member Amrutha decided to drop the course.Leaving us the only ones in our group with a lot to do.So we split up the work with me(Srihari) talking up the work of Data visualiztion and giving Data preprocessing and cleaning to Manas.

With who has to do what sorted out we began working Manas started data preprocessing and cleaning and finish it well within the time we decided to finish it.Then,I began my part of Data visualization by coding it for two weeks when i finally got an error free working data visualization model.Then,I further went on and used tableau to get maps of India with our data plotted on it to give a better analysis of crime statistics in India.To better finish our project.

ACKNOWLEDGEMENTS

It was a great Learning experience all throughout the course.I would like to express my special thanks of gratitude to my teacher (Manik Gupta) who gave me the golden opportunity to do this wonderful project on the topic (Analysis of Human Trafficking Crime Statistics across India), which also helped me in doing a lot of Research and i came to know about so many new things I am really thankful to them.I have learnt python quite well in the course of this project and I thank my teacher in giving me a project which involved working on python at a high level.

Secondly,I would also like to thank Manas Reddy who was also thinking of dropping the course on the pressure of other teammate dropping but took a back step from it and brought back confidence into our team to continue doing this project.