



**MANTHAN**  
राष्ट्रीय सुरक्षा सर्वोपरि

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# Idea Introduction



## IDEA TITLE- BASELINE

- Tech Stack
  1. Python
  2. My Sql
  3. Java
- Resources Used:
  1. Historic Data set
  2. Social media
- Any Third Party API/Services used
  1. Yes



## IDEA-OUTCOME – HEADLINE-

Accurate prediction of crime prone areas based on an analytical system that uses historical data to map regions with high crime rate .The system provides an automated solution to provide real-time data to the concerned authorities to enhance patrolling in the regions beforehand.



# Approach Towards Idea

## Machine learning based analytical approach

- Categorization of different types of crime using past crime data for a given geographical location.
- Analysing the dataset to identify the regions where there is a possibility of the crime occurring again.
- Computation of the increase in percentages for a particular crime over the years in a region.



### How was the problem targeted?

Identifying the high and low crime prone locations and computing the percentages of increase in each location.



### Innovation or feature added

Machine learning model that inculcates predictive analysis to alert authorities real time to take precautionary measures.



### Functional requirement in further development ?

Constant flow of data from social media, emergency services and news sources for instantaneous update of database.



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# Team Slide



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(Team Lead)  
Nadeem Abdul Razak Gulam



Neha Pandey



Medha R



Jyoti Kumari



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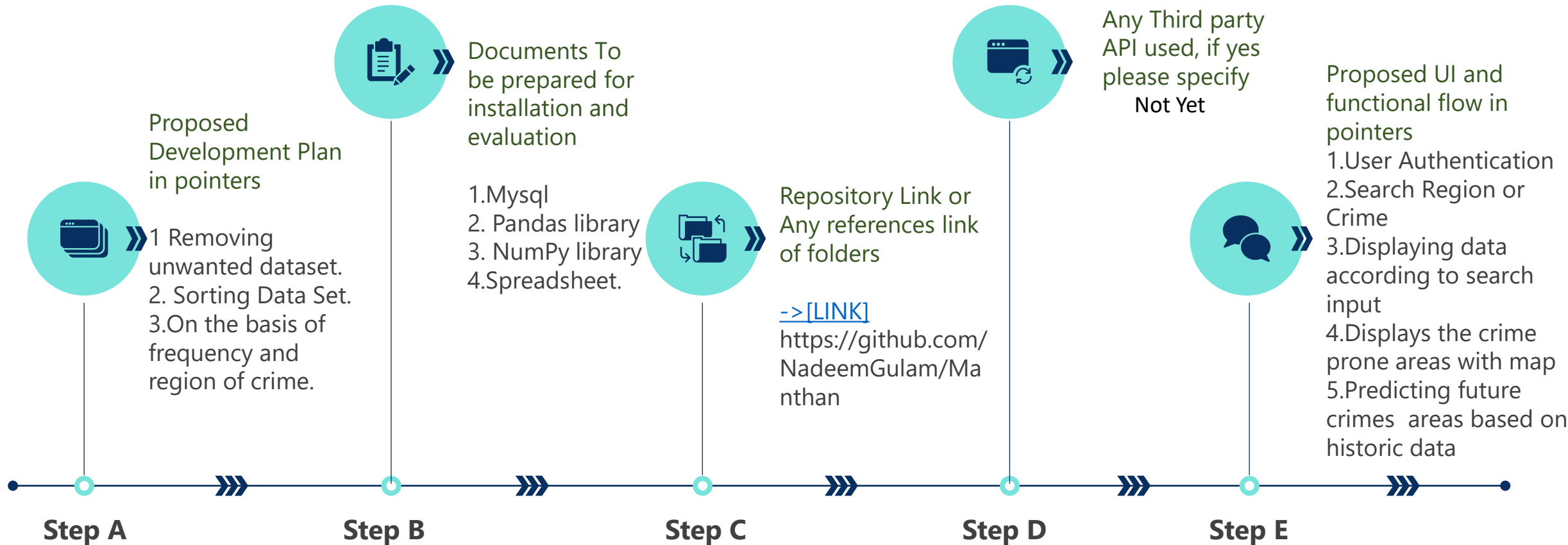
(Team Mentor)  
Syed Ateequr Rehman



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# Development Pipeline





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# Vision of Innovation/Idea/Solution

## Development of Idea

- Inspection of dataset and established parameters for occurrence of a crime.
- Implementing the model for a sample of data for a region.



## Vision and Innovation

- A model that allows effective crime control and assists in taking precautionary measures by providing constant real-time data

## Time for conversion into a final product

- Estimated time keeping in mind development and testing is around 12 months.

## Detection of early stage innovation

- Identification of redundant data and neglecting them by a certain error factor to the computations.