**Big Data Programming**

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**Group 13**

Awais Ahmad Khan

Khalid Dhabba

Shah Rukh Khan

**Crime Rate Analysis Using Machine learning**

We are proposing a system that will work on a large dataset of criminal activities for a specific or multiple type of crimes happening in a region. The initial system will be able to visualize the geographical regions of the criminal activities as well as the graphical representation of the criminal activities. The second phase of the system will focus on predicting and analysis of the criminal data based on different features and aspects. Through the data set the system can distinguish the dangerous areas and can predict the patterns of criminal activities. If the system allows, we will be able to generate a report showing the time-based analysis with respect to the type of crime which will help the security departments to take necessary measures at a specific region to prevent any chance of criminal activity.

We would try to somehow find a link between stock market, using it as a projection of financial situation across country and its effect on crime rate!

Furthermore, we will explore options in the softwares we have studied till now if we can leverage them to theoretically be able to predict a probability of crime at a certain location depending on locality, time of the year and inflation rates!

Using Maps to get nearest stores, house rates, nearest police offices for analysis!