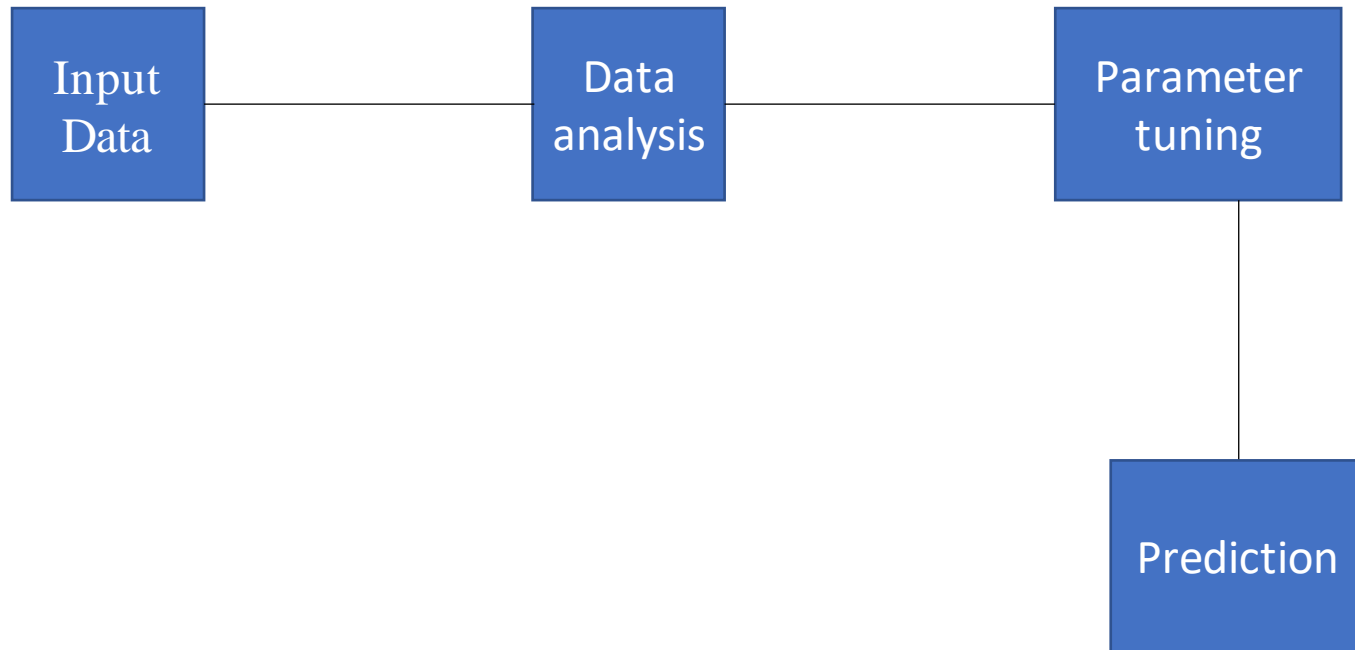# Crime in Philadelphia

BY

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Introduction:

- Philadelphia ranks above the national average in crime, in terms of violent offenses. It has highest violent crime rate in American cities with population greater than 1 million residents.

- We discuss about Part I crimes which includes homicides, rapes, robberies, aggravated assaults, and thefts.

Problem Statement:

- Predicting the possibility of each crime based on selected feature combinations.

- Using Machine Learning Algorithms to predict probability of crimes and using Spark to handle the data.

Methodology:

Data Source:

- Data source is obtained from official Philadelphia city website which is following

- https://metadata.phila.gov/index.html#home/

- Data consists of 2 million records with columns corresponding to crime date, time, location, latitude, longitude.

Solution:

- Predicting the probability of crimes using real time dataset helps in knowing the trends in crimes occurring.

- Using data to analyze district and area level we can predict the areas which are highly prone to crimes.

Thank you