



RAJEEV GANDHI MEMORIAL COLLEGE
OF ENGINEERING & TECHNOLOGY
(AUTONOMOUS)



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

CRIME PREDICTION USING A MACHINE LEARNING ALGORITHM

RESULT:

Crime Prediction

Date

23-02-2021

Location

Patna

Crime Predictions by Model

Decision Tree: Crime against SC

Random Forest: Cyber Crimes

Support Vector Machine: Crime against Senior Citizen

K-Nearest Neighbors: Crime against SC

Naive Bayes: Crime against ST

Logistic Regression: Crime against ST

XGBoost: Cyber Crimes

MLP Classifier: Kidnapping

Filtered Data

	Year	City	Population (in Lakhs) (2011) +	Type	Crime Rate	Location encoded	Type encoded
135	2021	Patna	20.5	Murder	3.707317	16	9
287	2021	Patna	20.5	Kidnapping	26.780488	16	8
439	2021	Patna	20.5	Crime against women	23.756098	16	5
591	2021	Patna	20.5	Crime against children	6.682927	16	4
743	2021	Patna	20.5	Crime Committed by Juveniles	0.439024	16	0

895	2021	Patna	20.5	Crime against Senior Citizens	0.000000	16	3
1047	2021	Patna	20.5	Crime against SC	3.219512	16	1
1199	2021	Patna	20.5	Crime against ST	0.000000	16	2
1351	2021	Patna	20.5	Economic Offences	57.609756	16	7
1503	2021	Patna	20.5	Cyber Crimes	14.829268	16	6