

Visualizations for Crime Against Women in India

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Motivation

Crime has always been one of the larger problems in India, especially since it is the second most populous country in the world, and a bane of India's development efforts.

The skewed sex ratio, age-old customs like Sati and Dowry and the lower status women hold in society leave women at higher risk to become victims of sexualized violence.

The safety of women has suddenly become a national priority; the issue has gained visibility through different journalistic media, we tried to contribute to same using Data Analysis strategies.

Project Goals

We aim to create a series of visualizations to allow exploration and analysis of data about Crime Against Women in India. Using several categories of data. Visualizations so that any one can understand different crimes in different states as per their requirements.

Data-Set Info

The data refers to district wise details on crimes against women during the years . The nature of such crimes includes Rape, Kidnapping and Abduction, Dowry Death, Assault on women with intent to outrage her modesty, Insult to modesty of Women, Cruelty by Husband or his Relatives and Importation of Girls.

Data being used from <https://data.gov.in/> for crimes against women

1. From 2001 to 2012
2. 2013
3. 2014
4. 2015

We tried to show the following

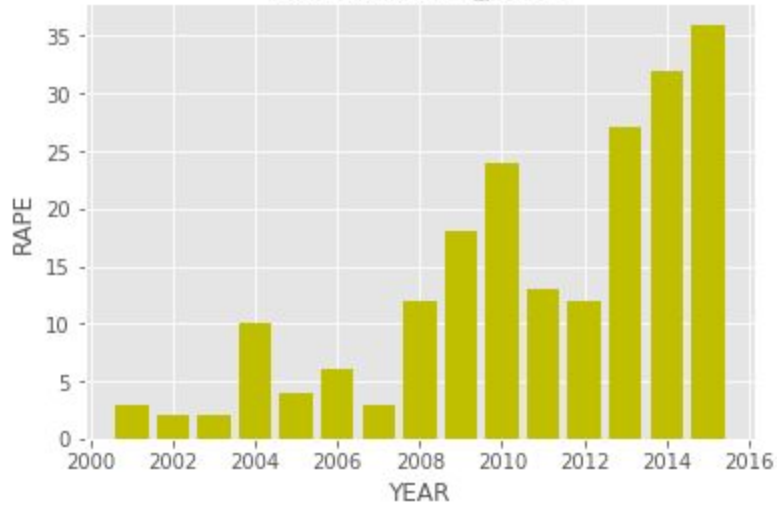
1. Year-wise Number of Rapes in different states.
2. Number of Dowry Deaths in different States from 2001 till 2015.
3. Mix line plots for each state differently showing how different crimes have changed over this time period.
4. We also tried to plot how different states have been successfully curbed on these crime rates while how some failed miserably over same.

Visualizations 1 – Rapes

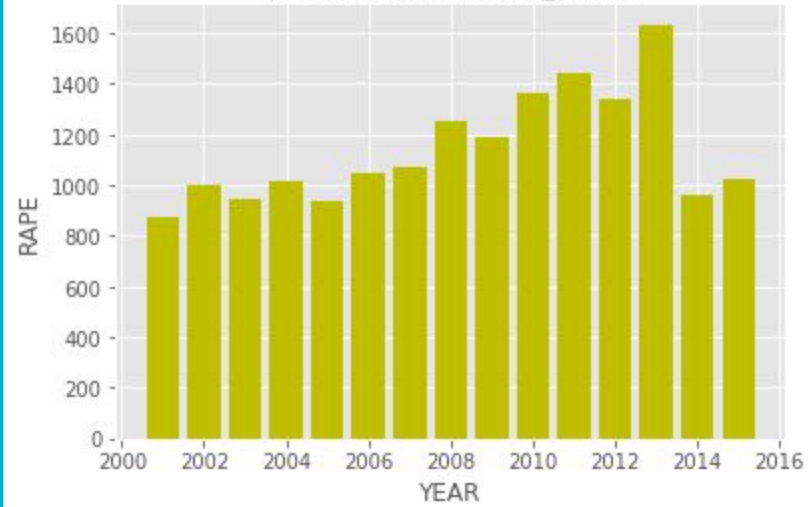
With these visualizations we tried to show Number of Rapes have been changing in a state of user choice over past years and how will they be going through for upcoming years.

As we can't put all graphs here, so we have graphs for major cities as follows:

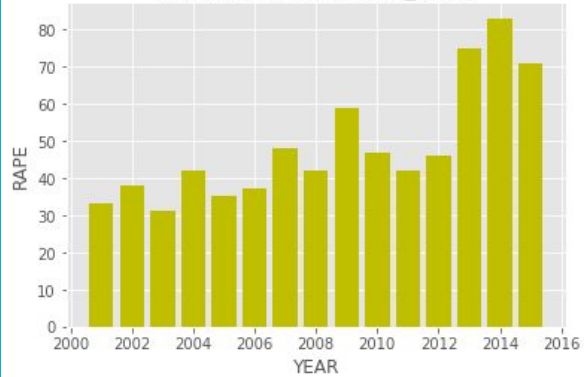
A&N ISLANDS_Rape



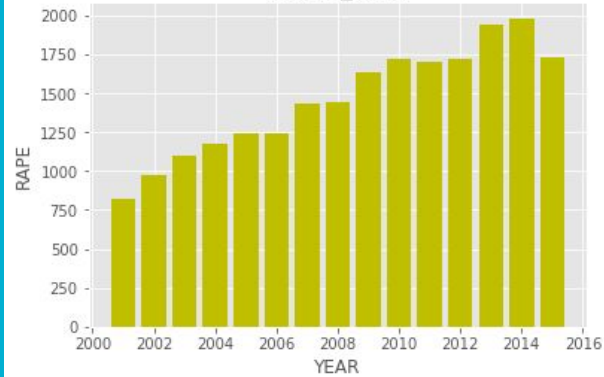
ANDHRA PRADESH_Rape



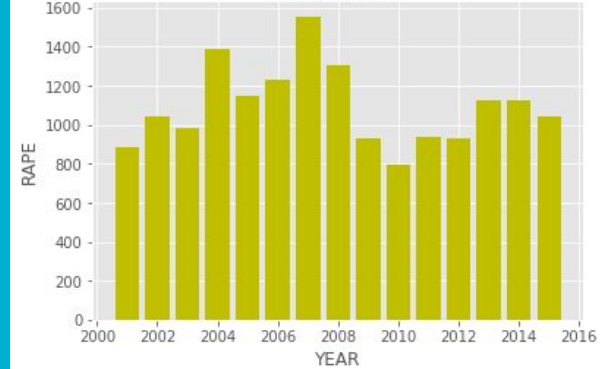
ARUNACHAL PRADESH_Rape



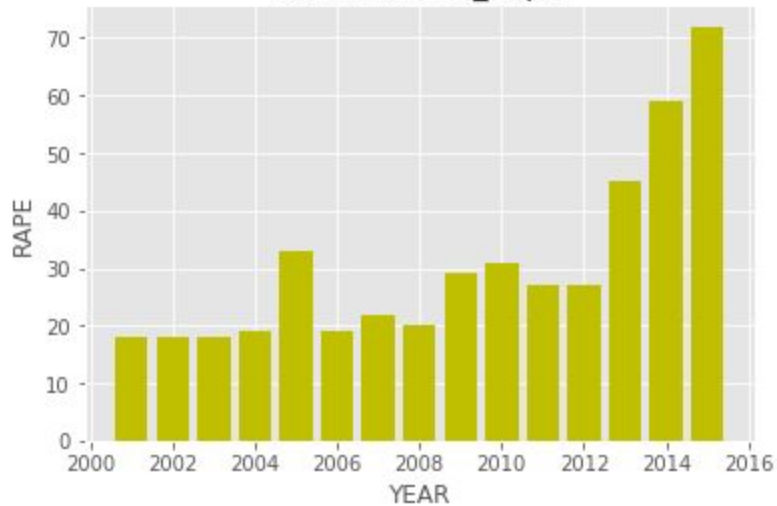
ASSAM_Rape



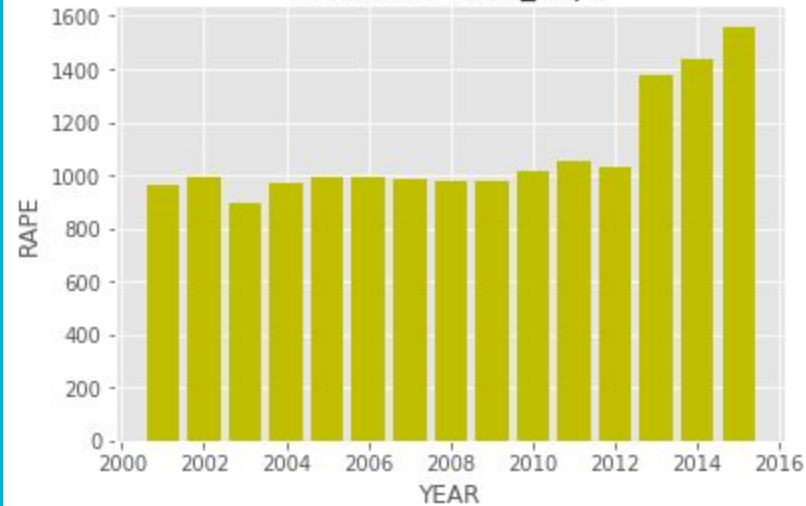
BIHAR_Rape



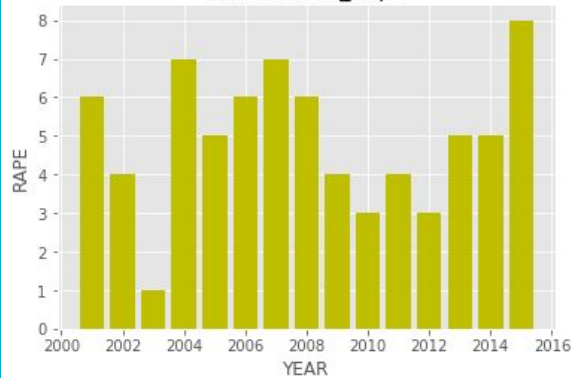
CHANDIGARH_Rape



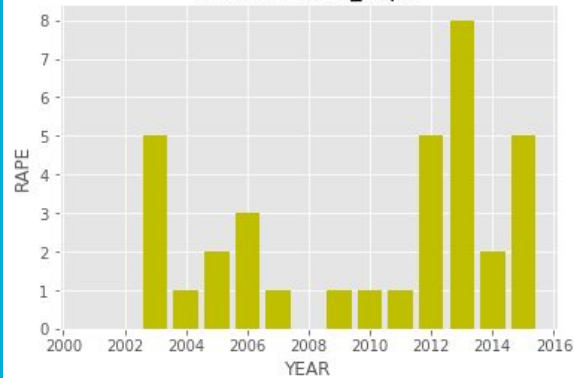
CHHATTISGARH_Rape



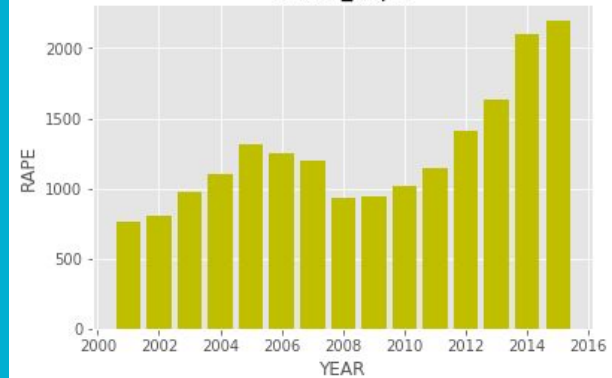
D&N HAVELI_Rape



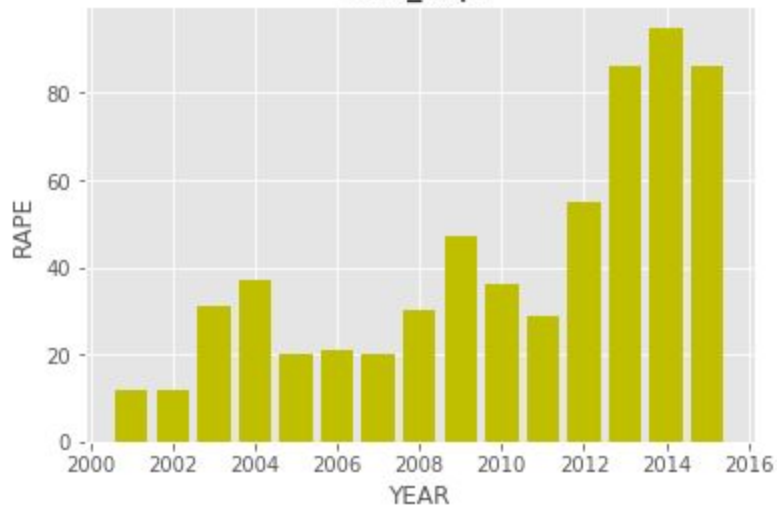
DAMAN & DIU_Rape



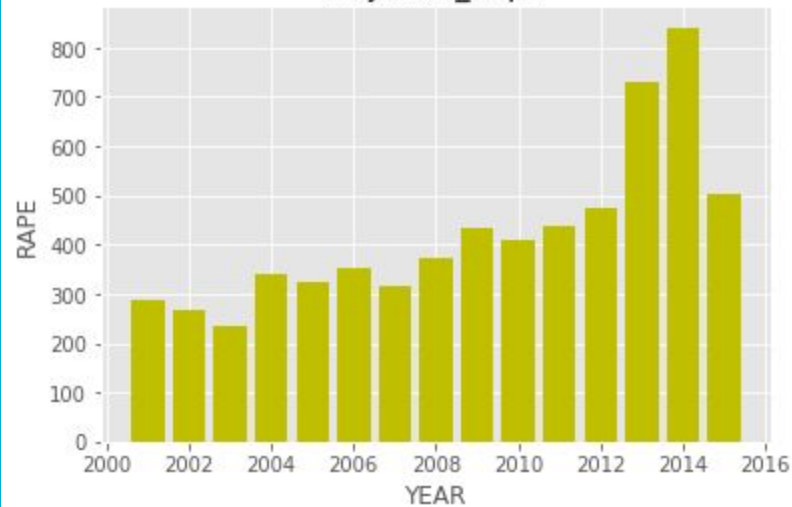
DELHI_Rape



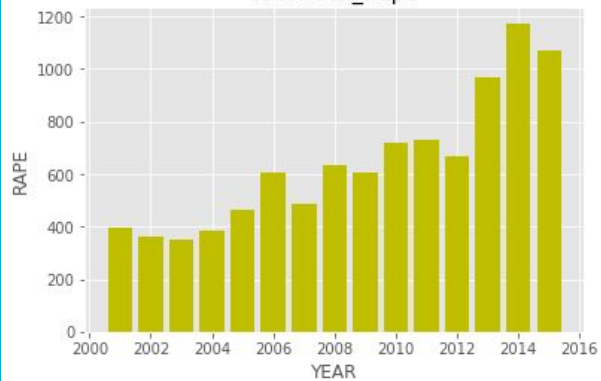
GOA_Rape



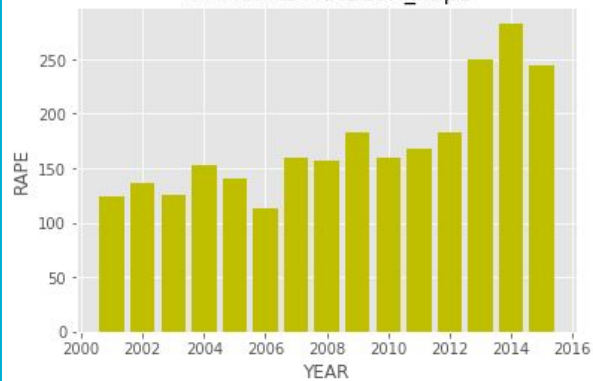
GUJARAT_Rape



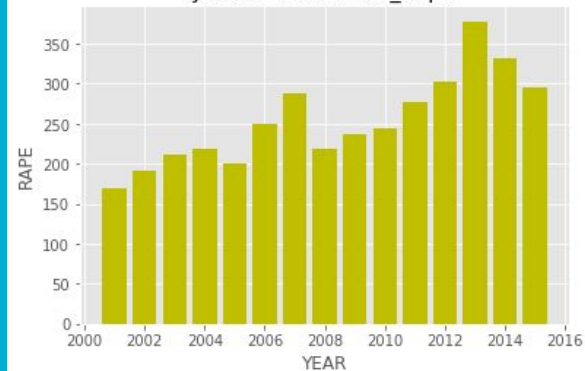
HARYANA_Rape



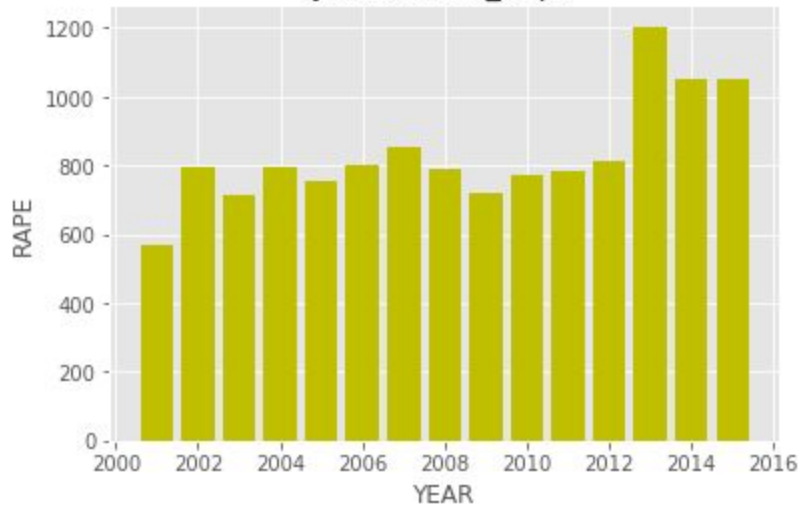
HIMACHAL PRADESH_Rape



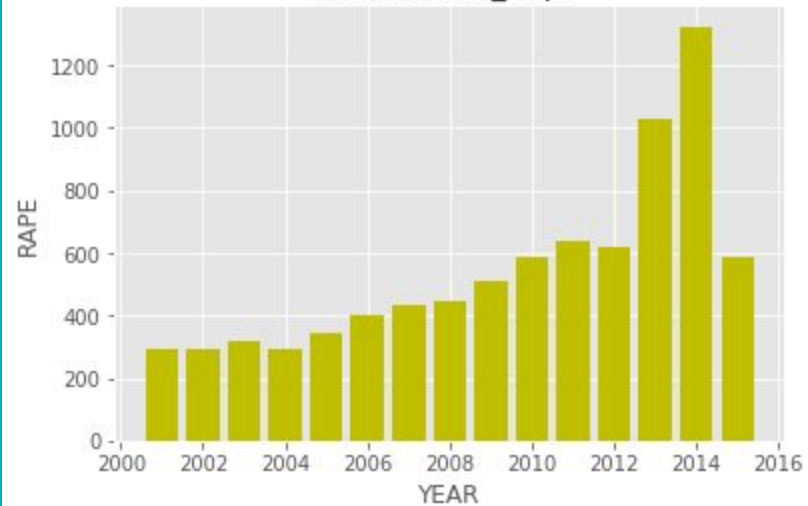
JAMMU & KASHMIR_Rape



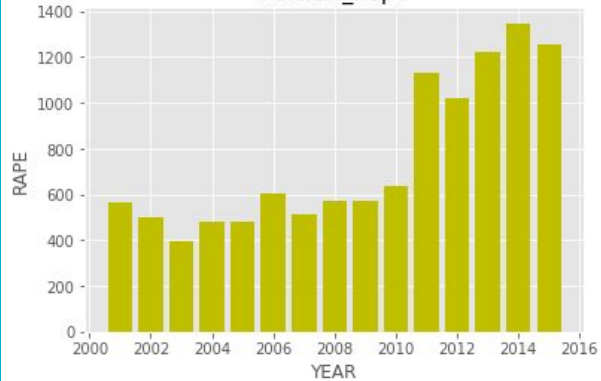
JHARKHAND_Rape



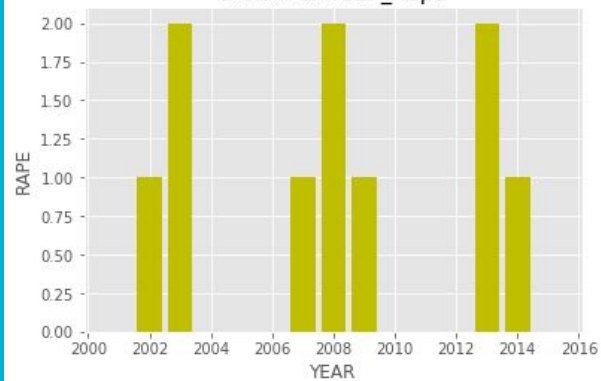
KARNATAKA_Rape



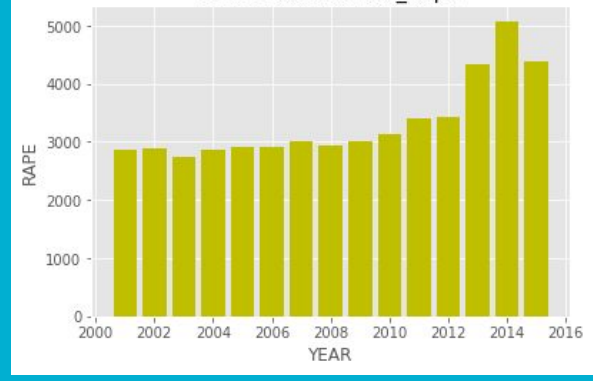
KERALA_Rape



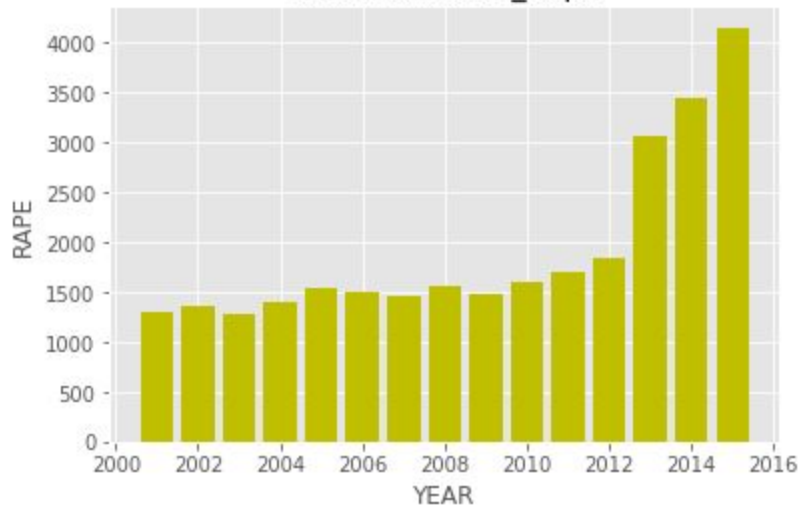
LAKSHADWEEP_Rape



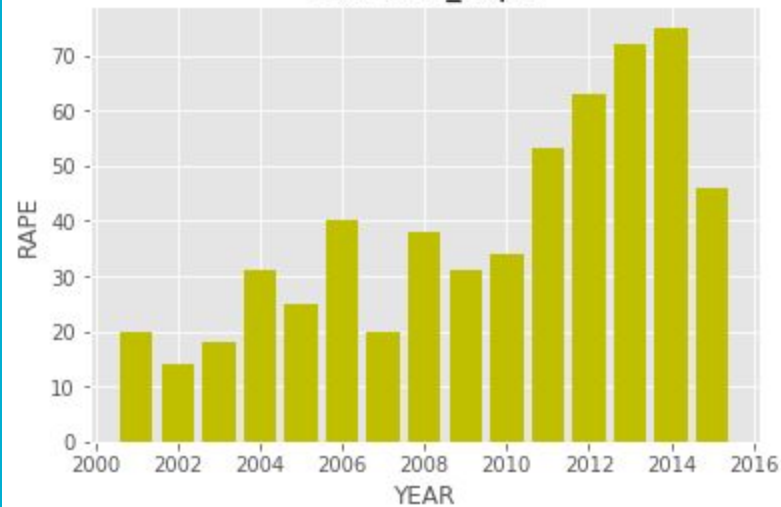
MADHYA PRADESH_Rape



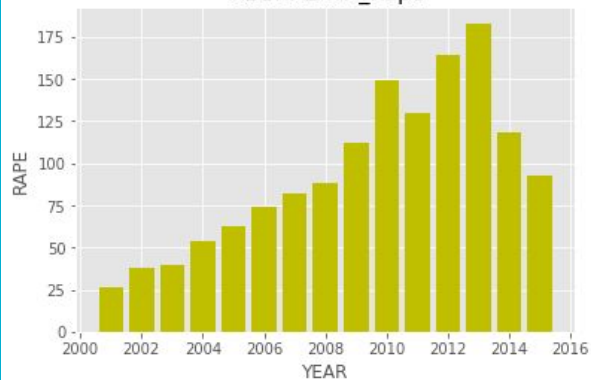
MAHARASHTRA_Rape



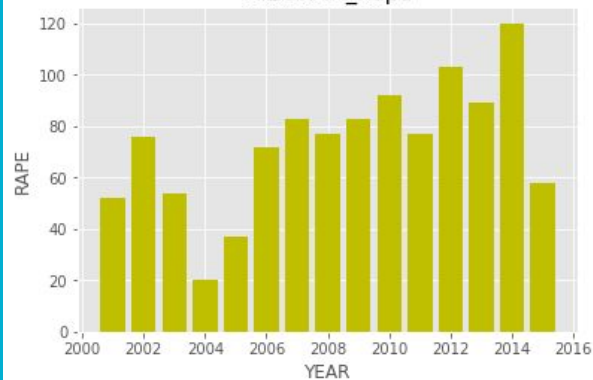
MANIPUR_Rape



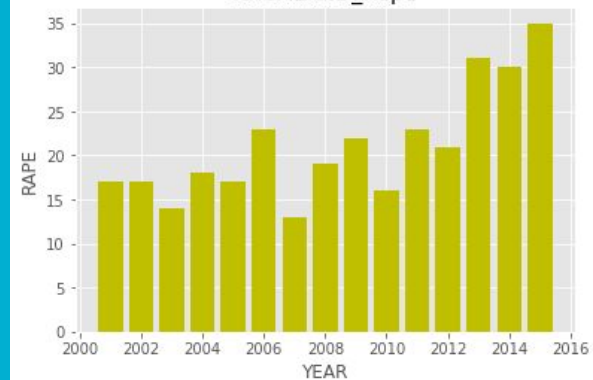
MEGHALAYA_Rape



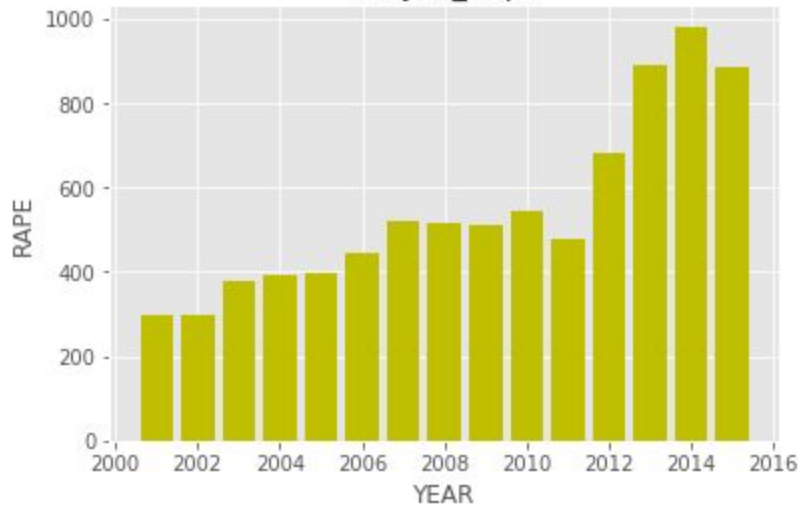
MIZORAM_Rape



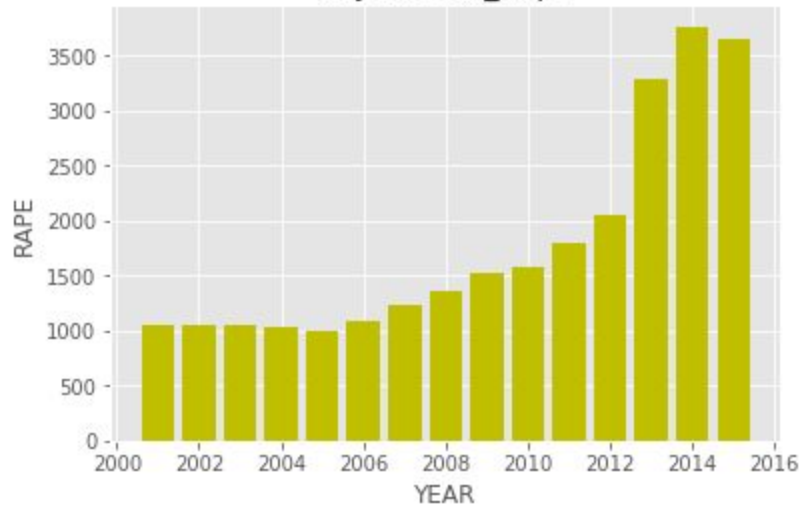
NAGALAND_Rape



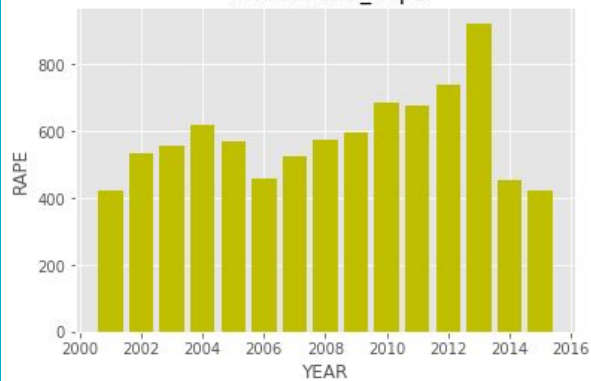
PUNJAB_Rape



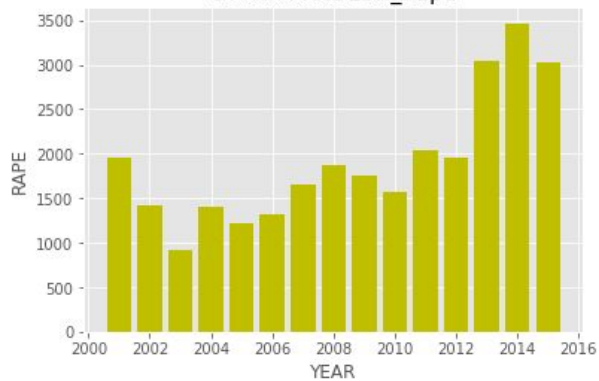
RAJASTHAN_Rape



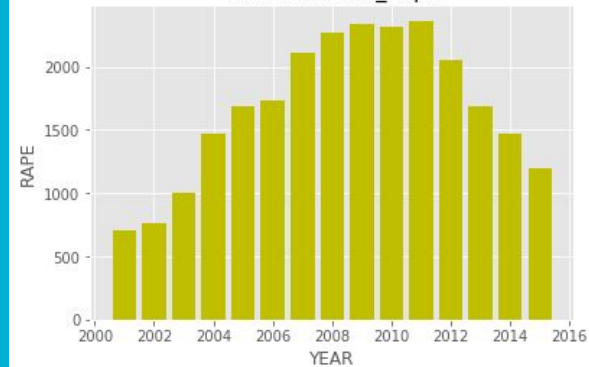
TAMIL NADU_Rape



UTTAR PRADESH_Rape



WEST BENGAL_Rape



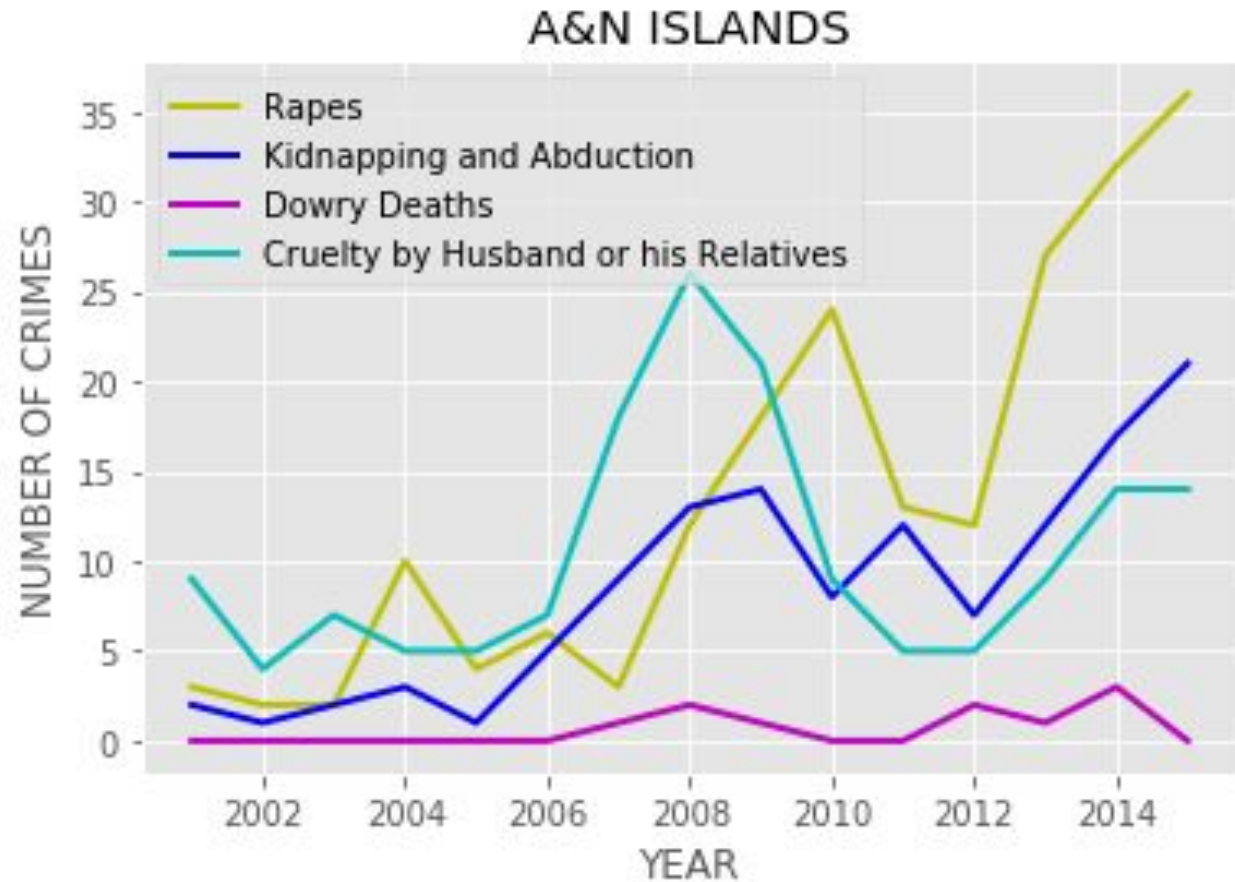
Visualizations 2 – Different crimes Statistics

With these visualizations we tried to show how different crime against women's have been changing over time or it can be used to check major problems over time in a particular state.

As we can't put all graphs here, so we have graphs for major cities as follows:

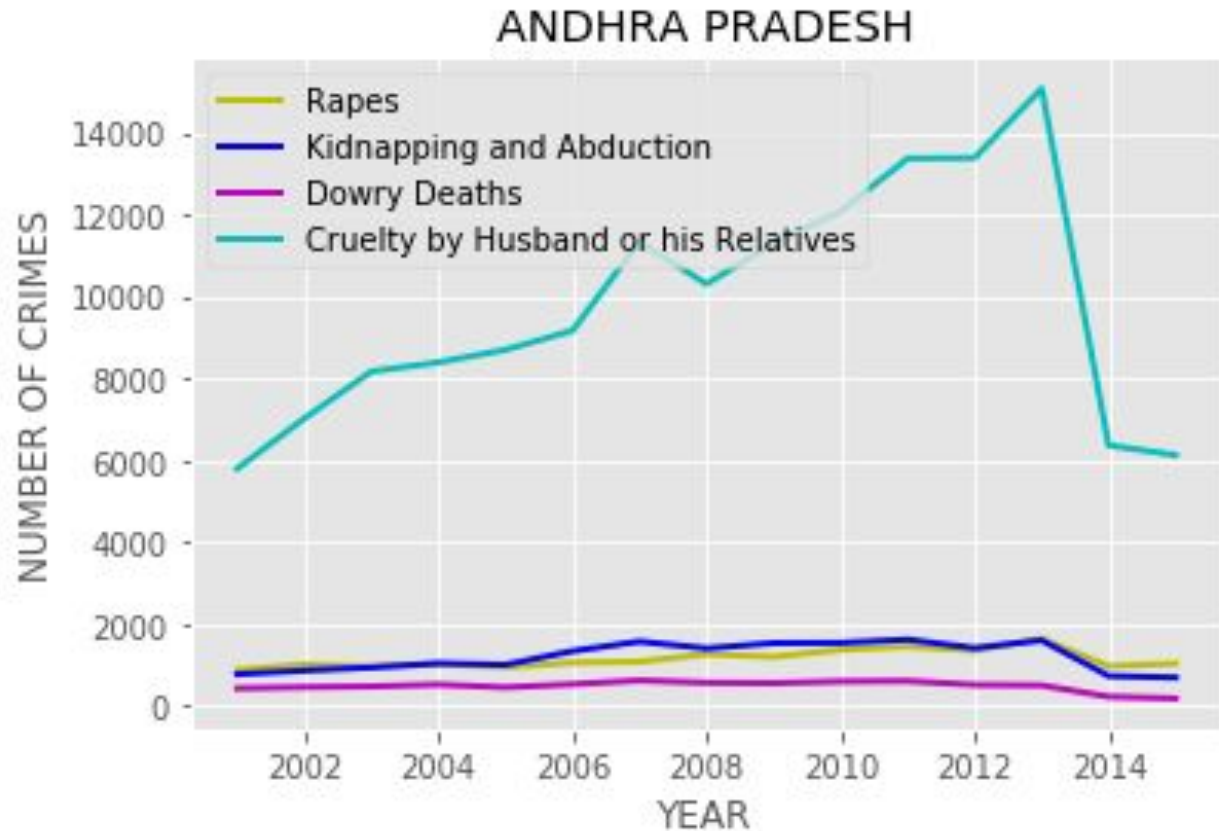
A&N ISLANDS

- INCREASE IN NUMBER OF RAPES TILL THE END OF 2015.
- DOWRY DEATHS BEING VERY LOW THROUGHOUT THIS PERIOD.



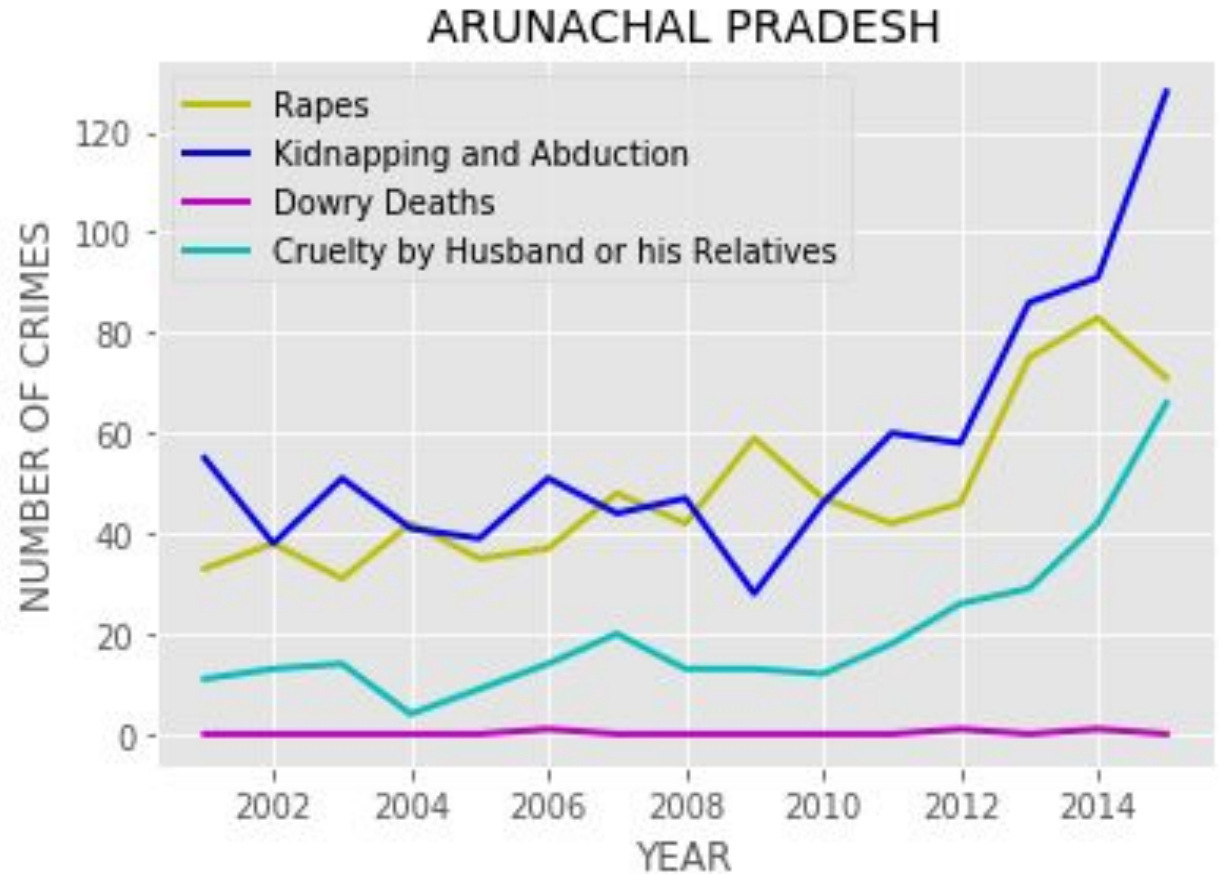
ANDHRA PRADESH

- VERY HIGH NUMBER OF CASES FOR CRUELTY AGAINST WOMEN BY HUSBAND OR HIS RELATIVES.



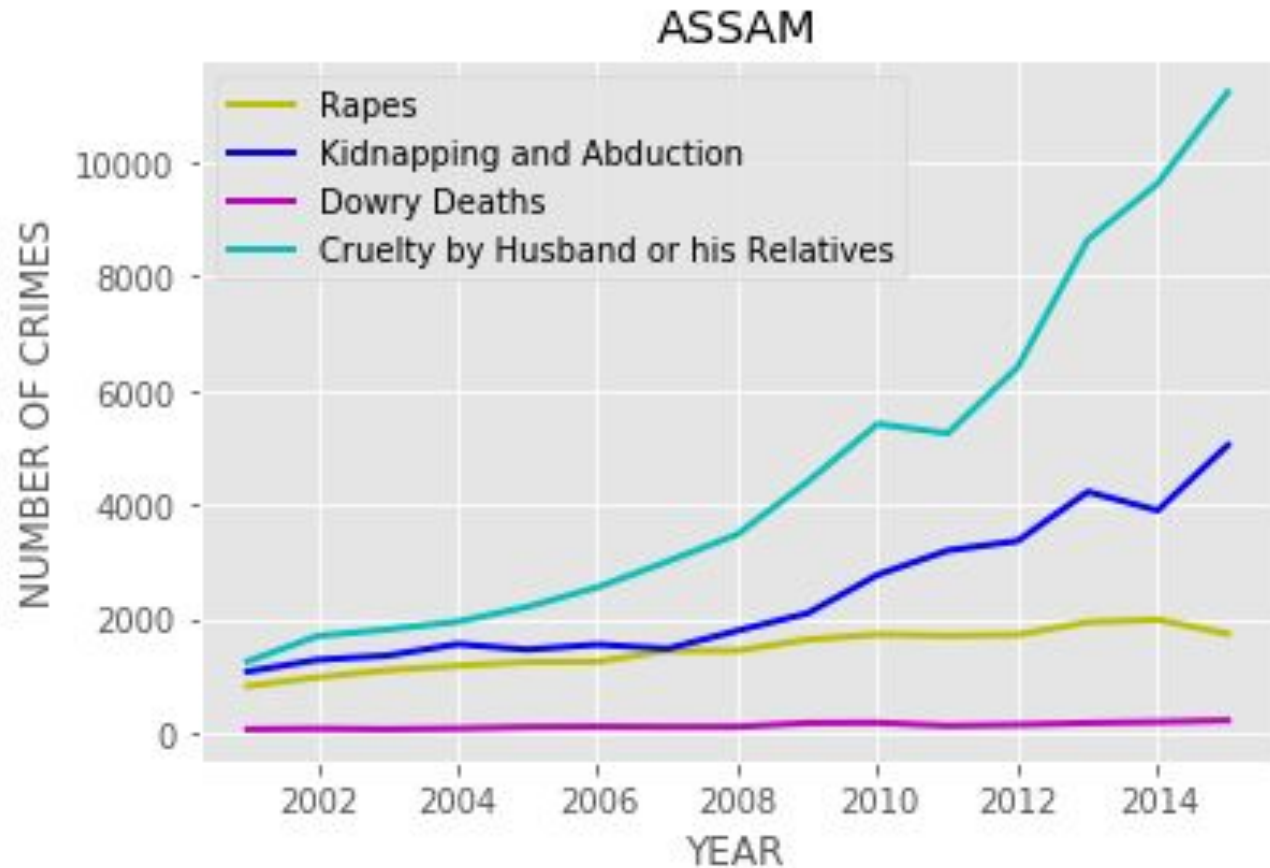
ARUNACHAL PRADESH

- CLEARLY SHOWS A STEEP INCREASE IN NUMBER OF KIDNAPPING AND ABDUCTION CASES.



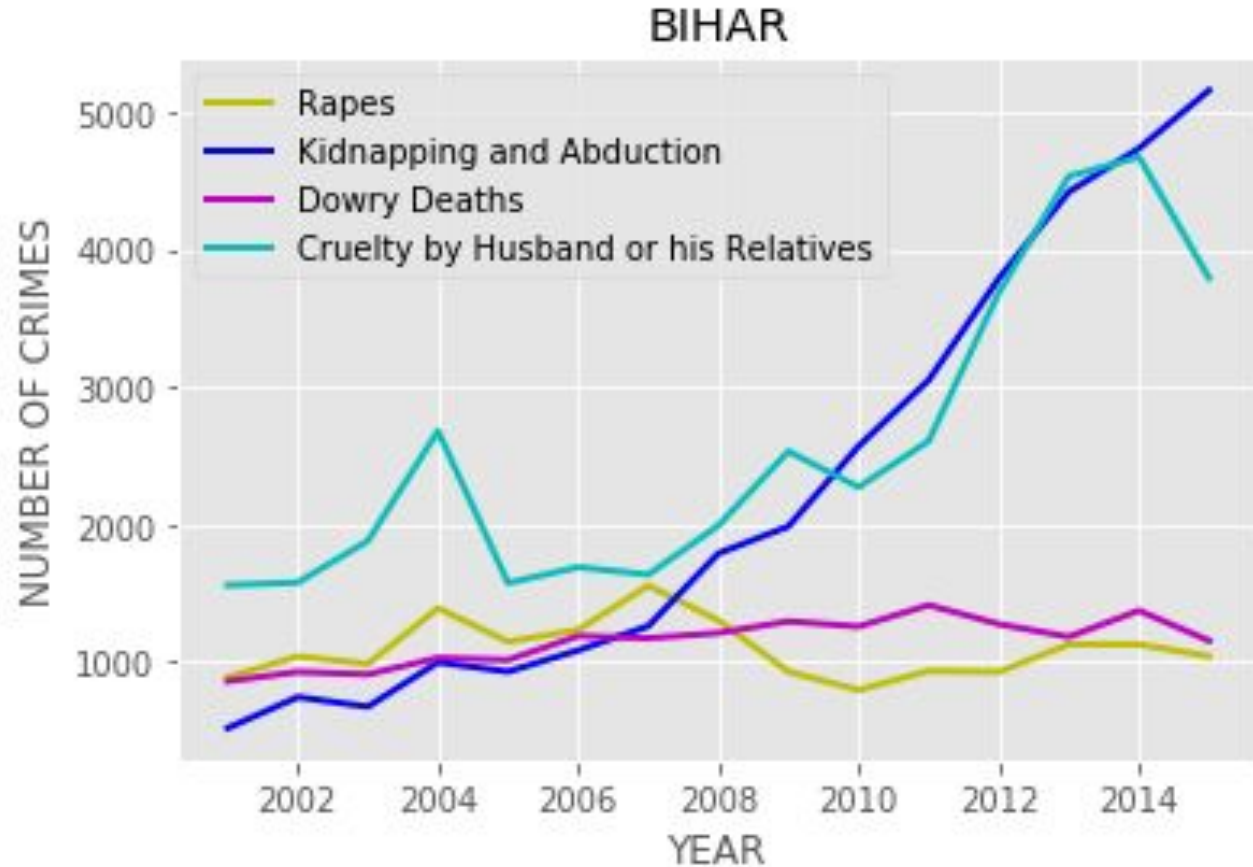
ASSAM

- CRUELTY BY HUSBAND OR HIS RELATIVES BEING THE HIGHEST COMMITTED CRIME IN ASSAM.
- GOVT. SHOULD WORK ON WAYS TO BRING THEM DOWN BY SPREADING AWARENESS.



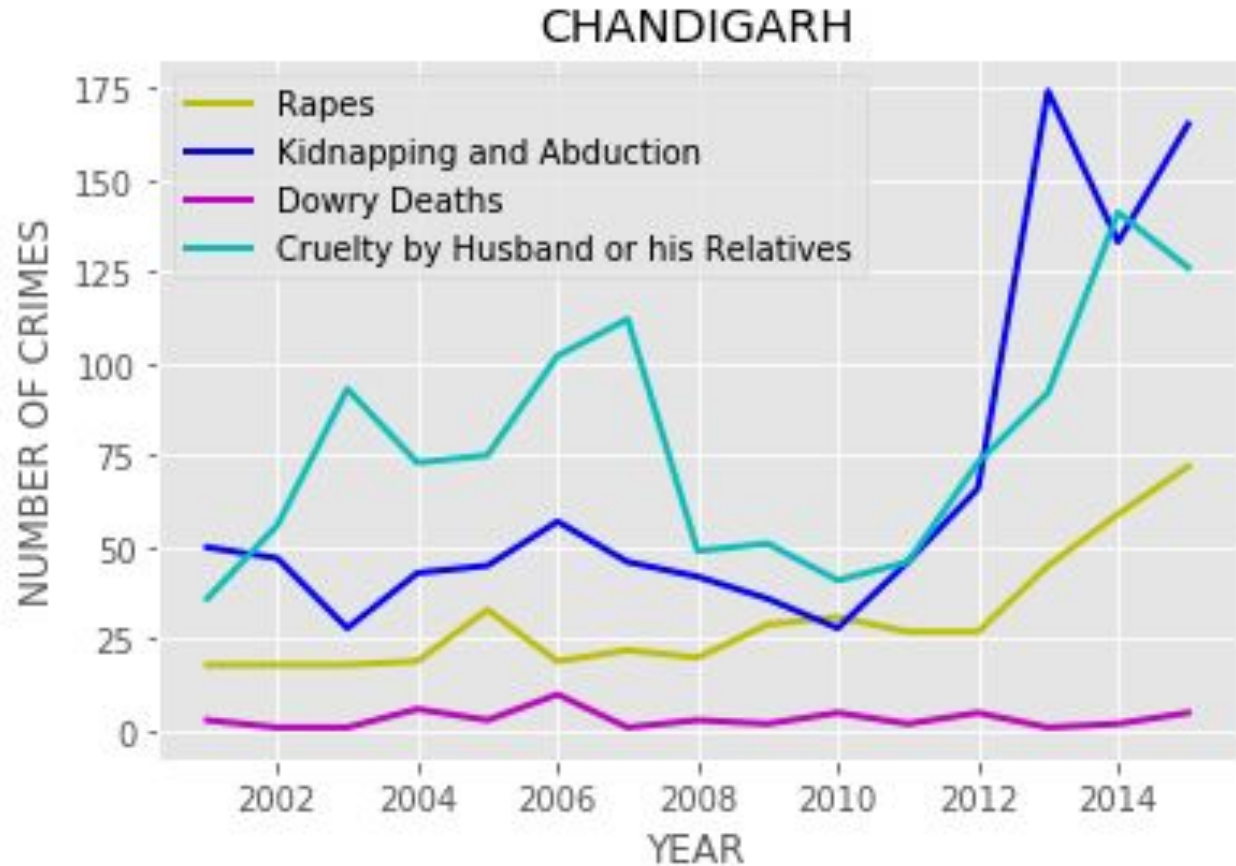
BIHAR

- RAPES AND DOWRY DEATHS BEING LOW RELATIVE TO KIDNAPPING AND CRUELTY CASES IN BIHAR.
- BUT STILL KIDNAPPING AND ABDUCTION CASES ARE BEING VERY HIGH AND STILL INCREASING.



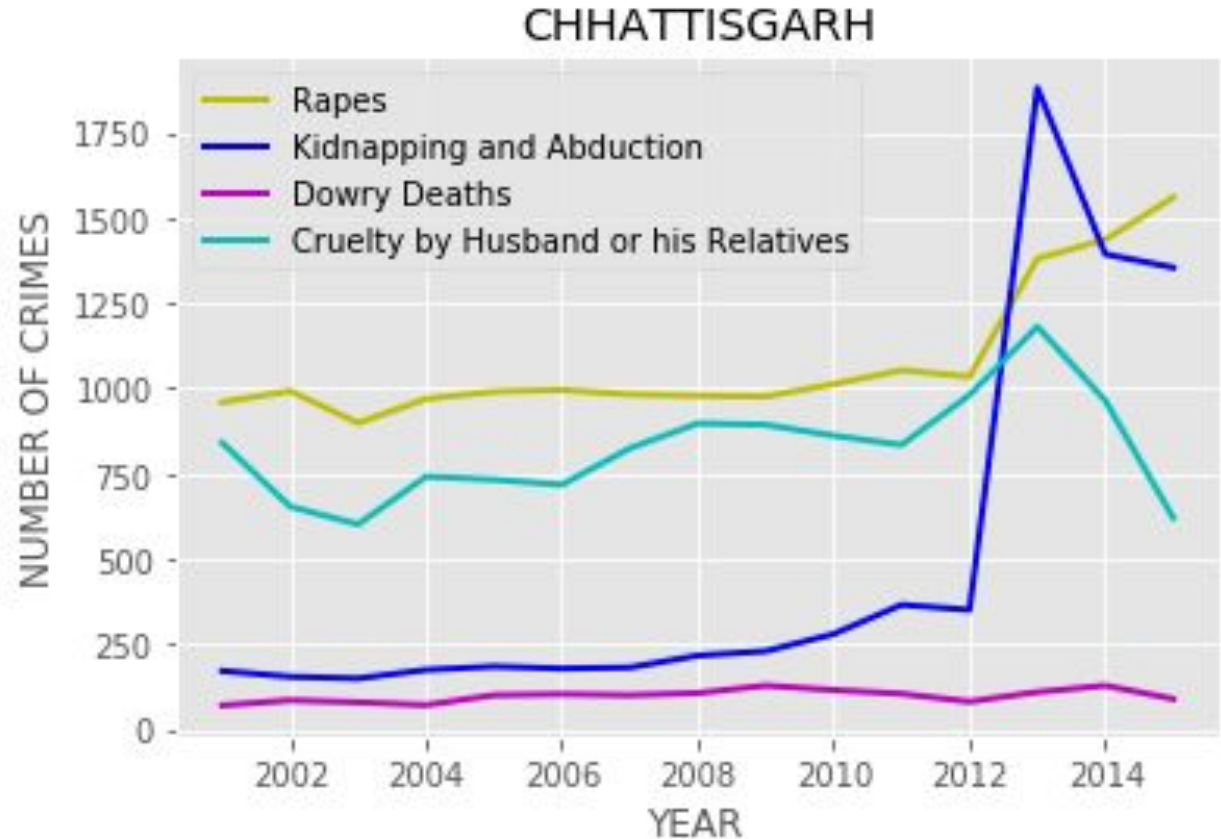
CHANDIGARH

- 2014 SAW A SMALL FALL IN NUMBER OF KIDNAPPING AND ABDUCTION CASES.
- WHILE BY THE END OF 2015 INCREASE IN NUMBER OF RAPE CASES CAN'T BE IGNORED.



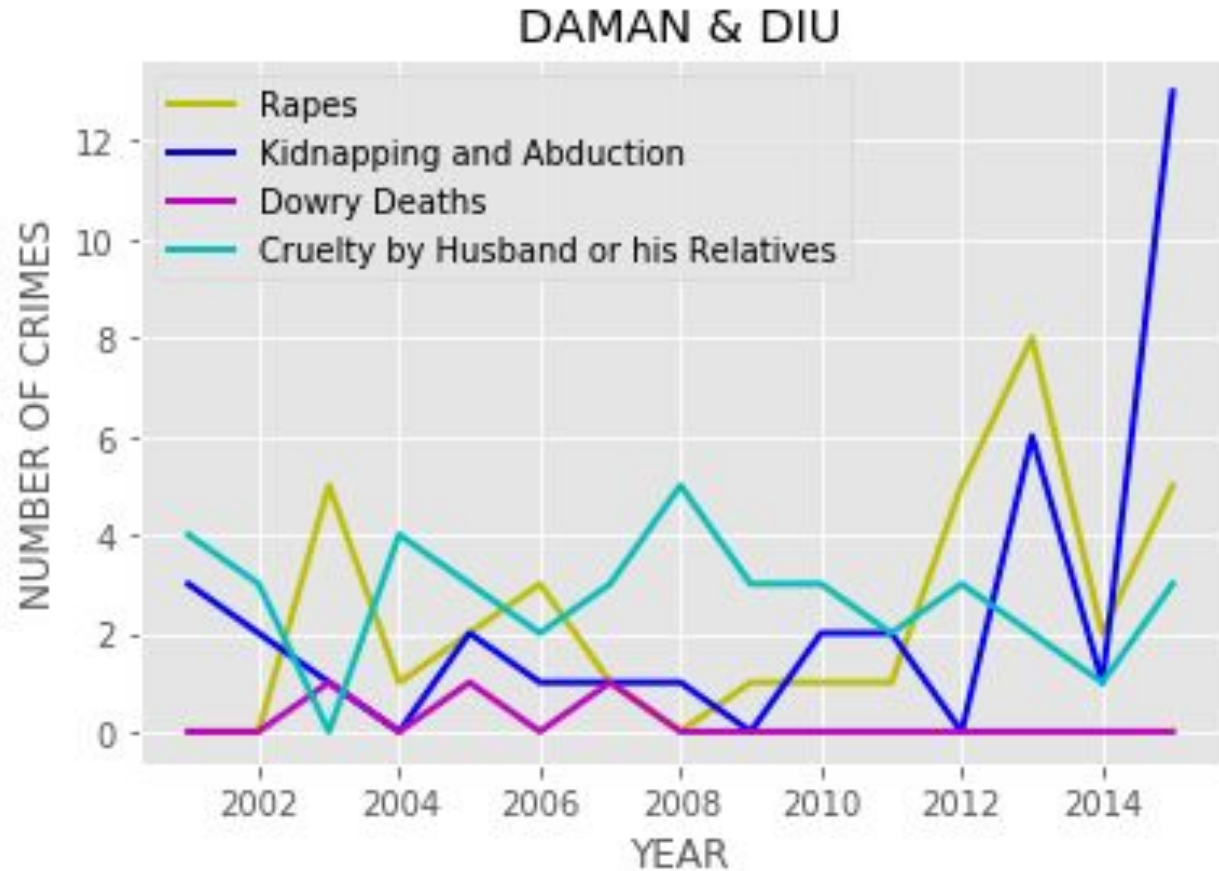
CHHATTISGARH

- CHHATTISGARH ALSO SAW A INCREASE NUMBER OF RAPE AND VERY SHARP INCREASE IN NUMBER KIDNAPPING AND ABDUCTION CASES BY THE END OF 2015.



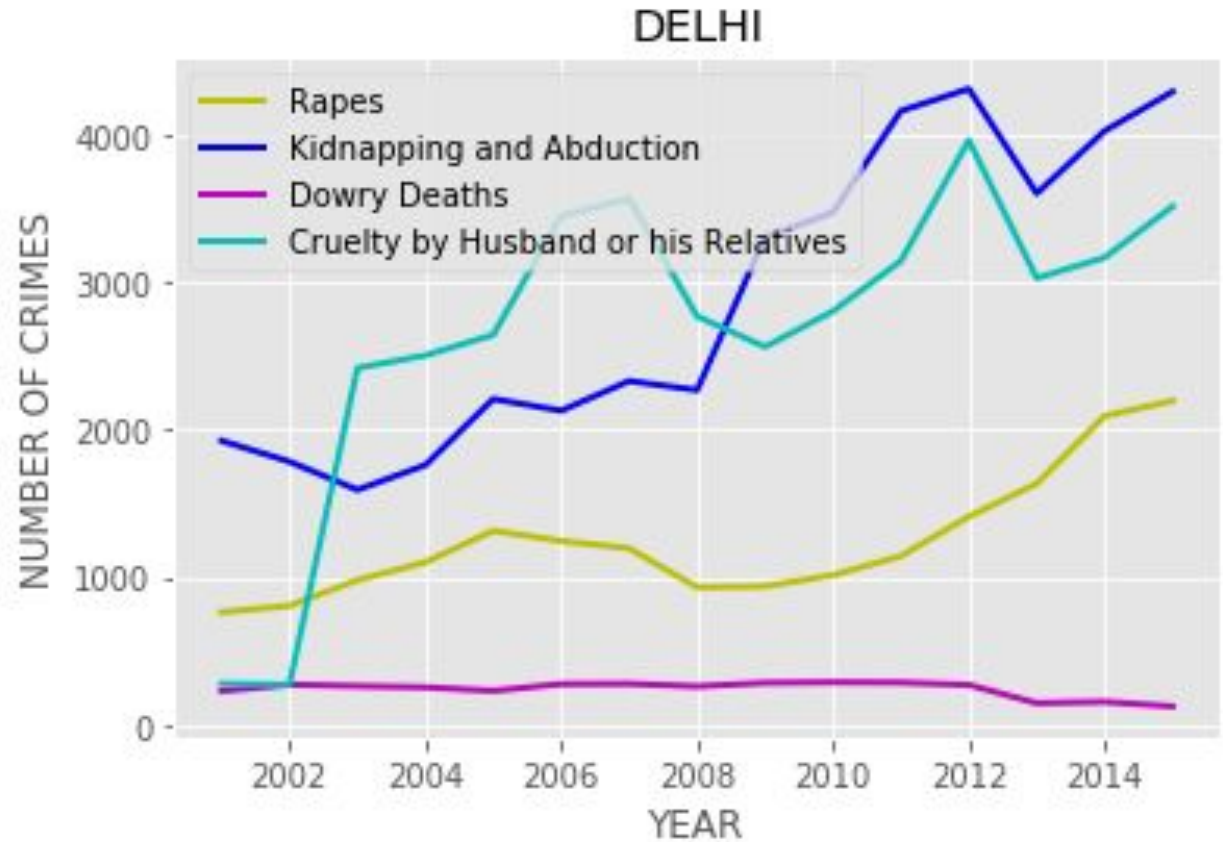
DAMAN & DIU

- 2014 WAS A VERY GOOD YEAR IN DAMAN & DIU AS NUMBER OF CRIMES AGAINST WOMEN CAME DOWN BUT SAW A INCREASE AS 2015 APPROACHES.



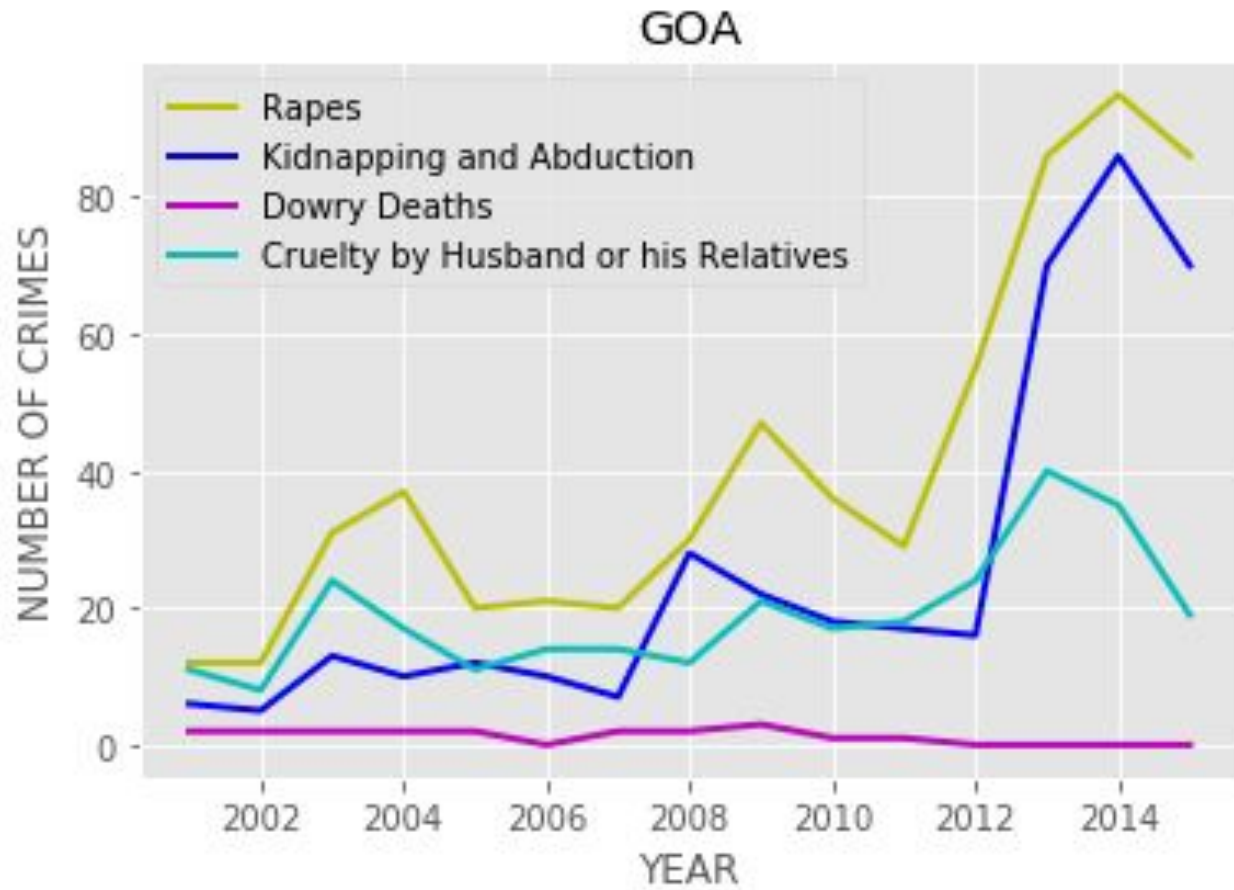
DELHI

- NUMBER OF RAPES HAVE BEEN SIGNIFICANTLY INCREASED SINCE 2008.
- WHILE NUMBER OF KIDNAPPING AND CRUELTY STILL INCREASING DAY BY DAY.



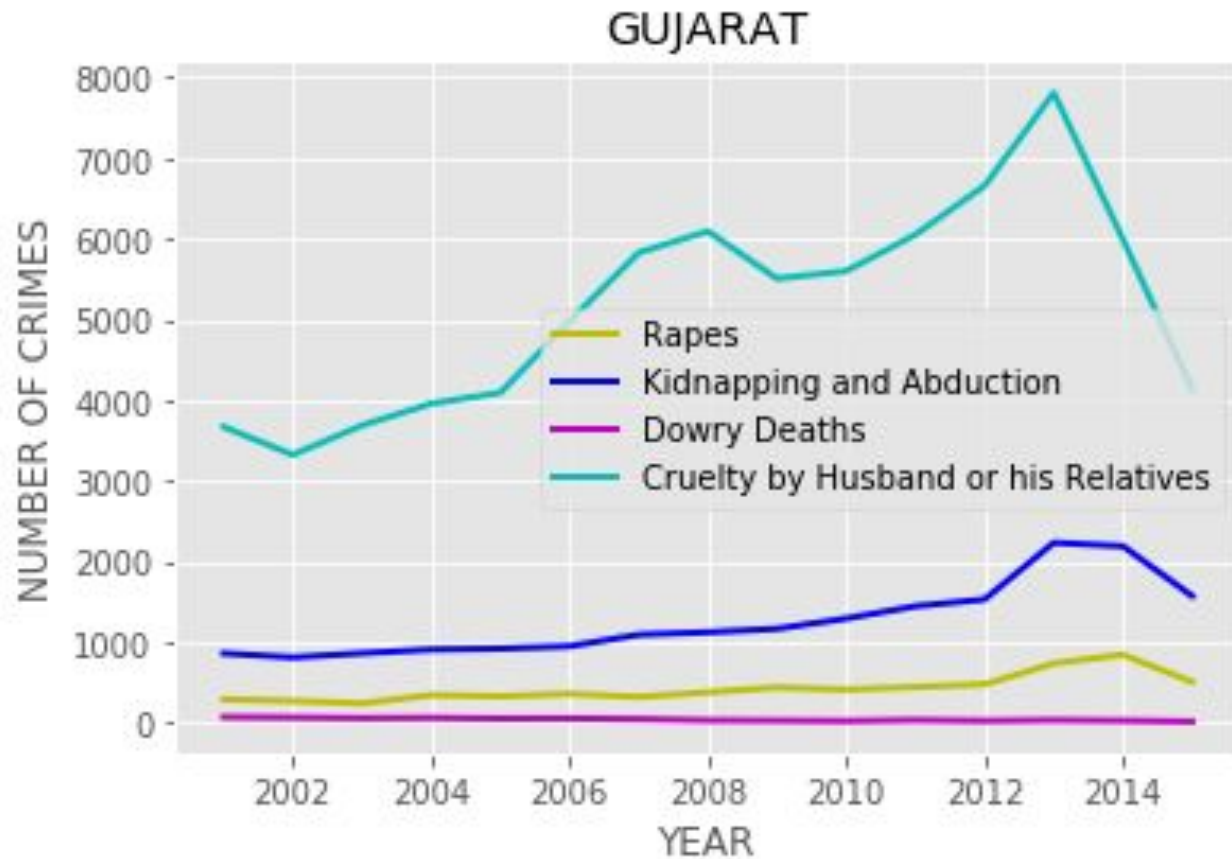
GOA

- 2014 SAW THE HIGHEST NUMBER OF RAPES TILL 2015 IN GOA.
- WHILE DOWRY DEATHS BEING VERY LOW THROUGHOUT.



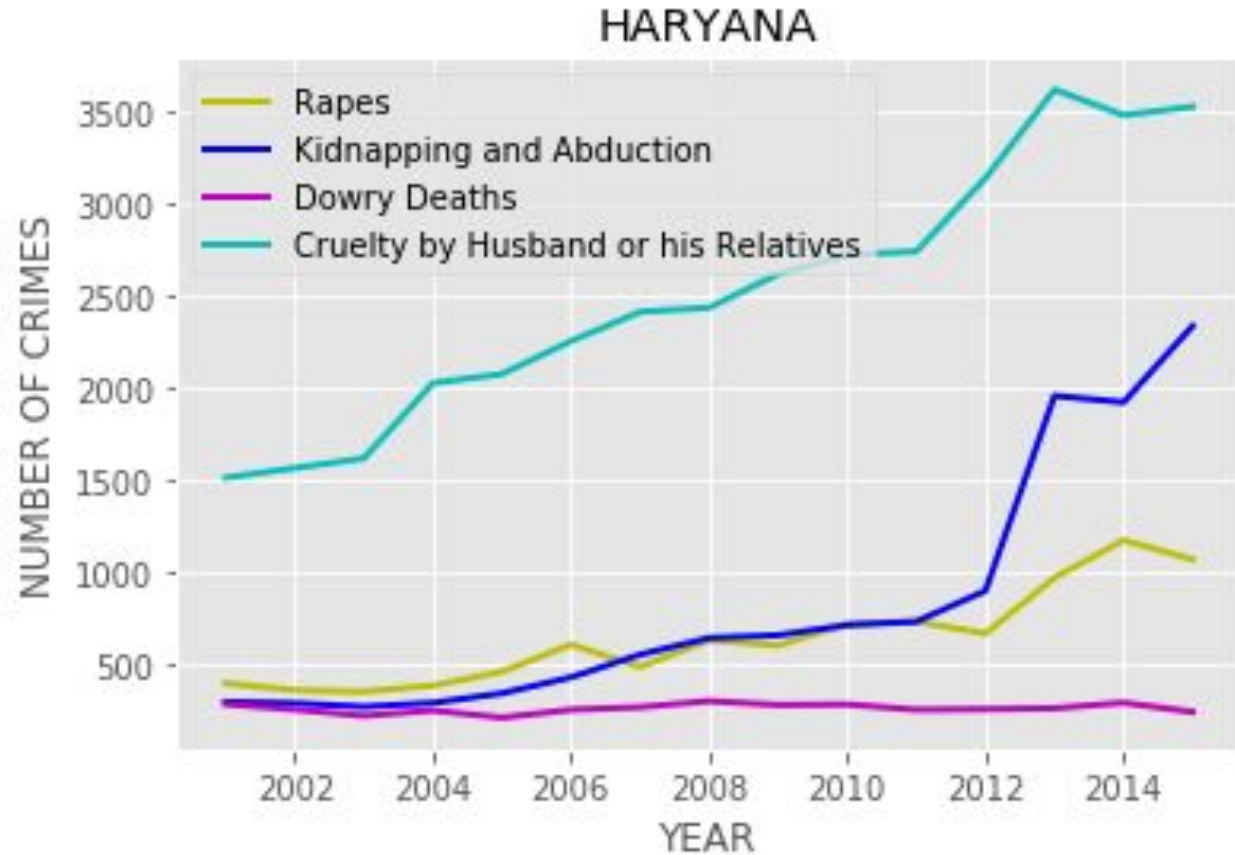
GUJARAT

- CRIME RATES HAVE ALMOST DOUBLED SINCE 2001 BY THE END OF 2015.
- THOUGH CRUELTY AGAINST WOMEN SAW SOME DECREASE FROM 2013.



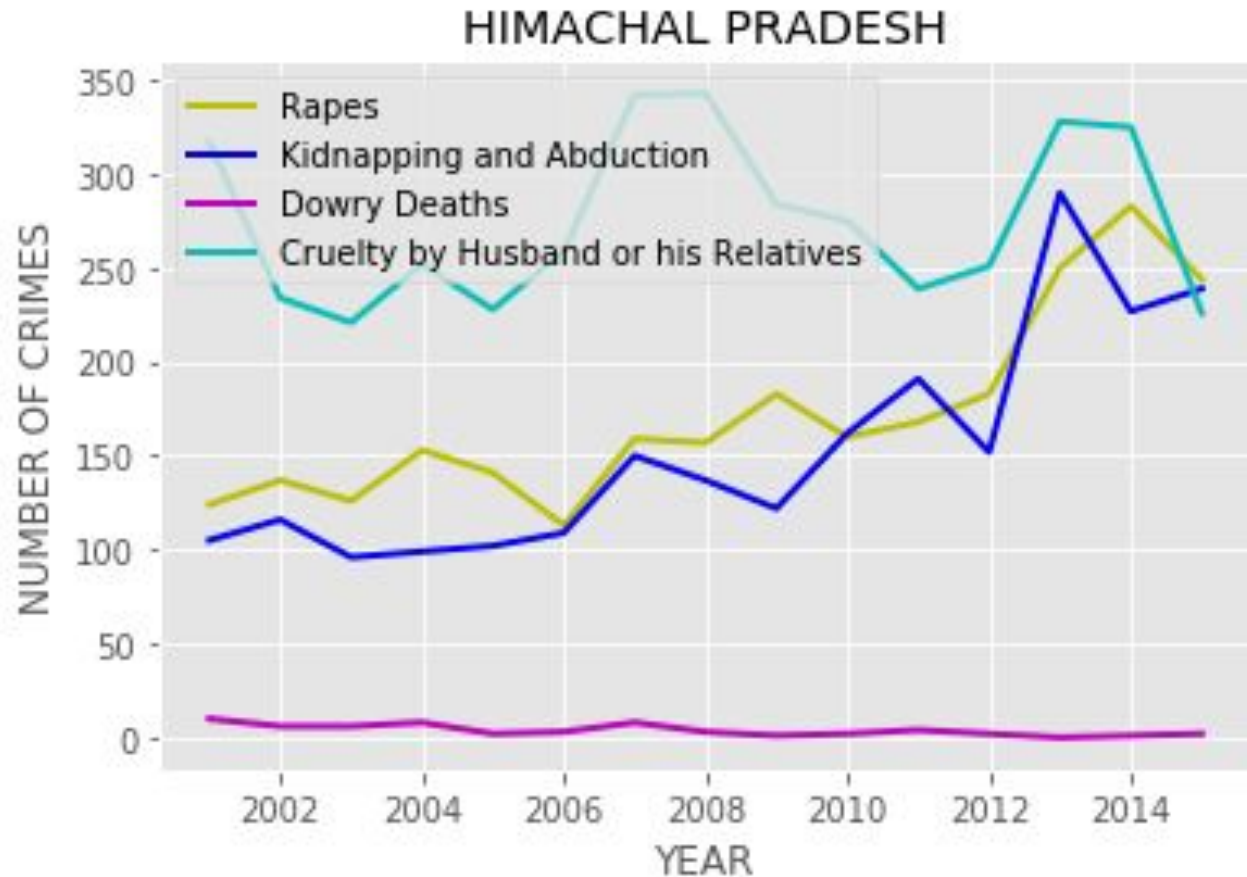
HARYANA

- HARYANA BEING PICTURISED AS BEING MORE RURAL THAN URBAN SAW VERY LOW NUMBER OF DOWRY DEATHS.
- WHILE CRUELTY BY HUSBAND CASES HAVE INCREASED SIGNIFICANTLY OVER TIME.



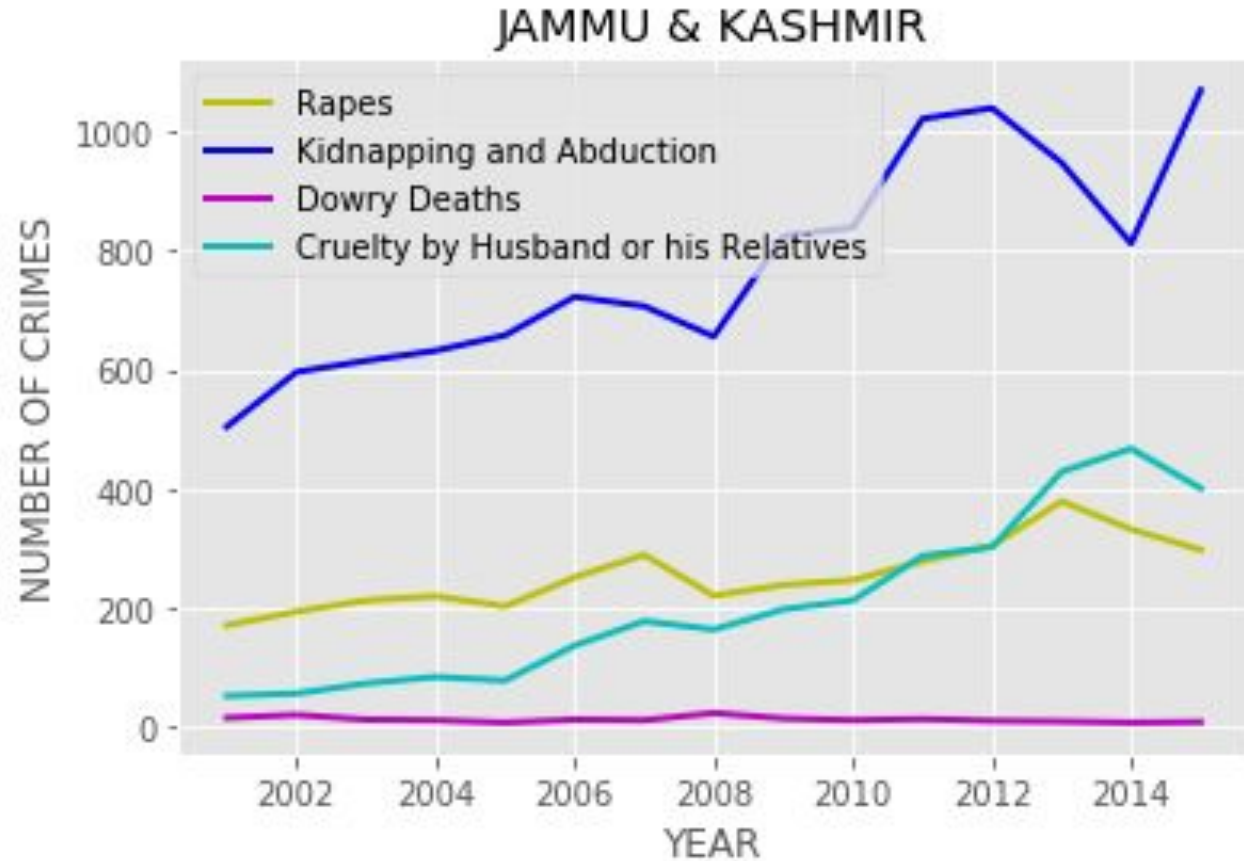
HIMACHAL PRADESH

- HIGH INCREASE IN KIDNAPPING AND ABDUCTION CASES FROM 2012 TO 2013.
- FALL CRUELTY CASES BY THE END OF 2015.



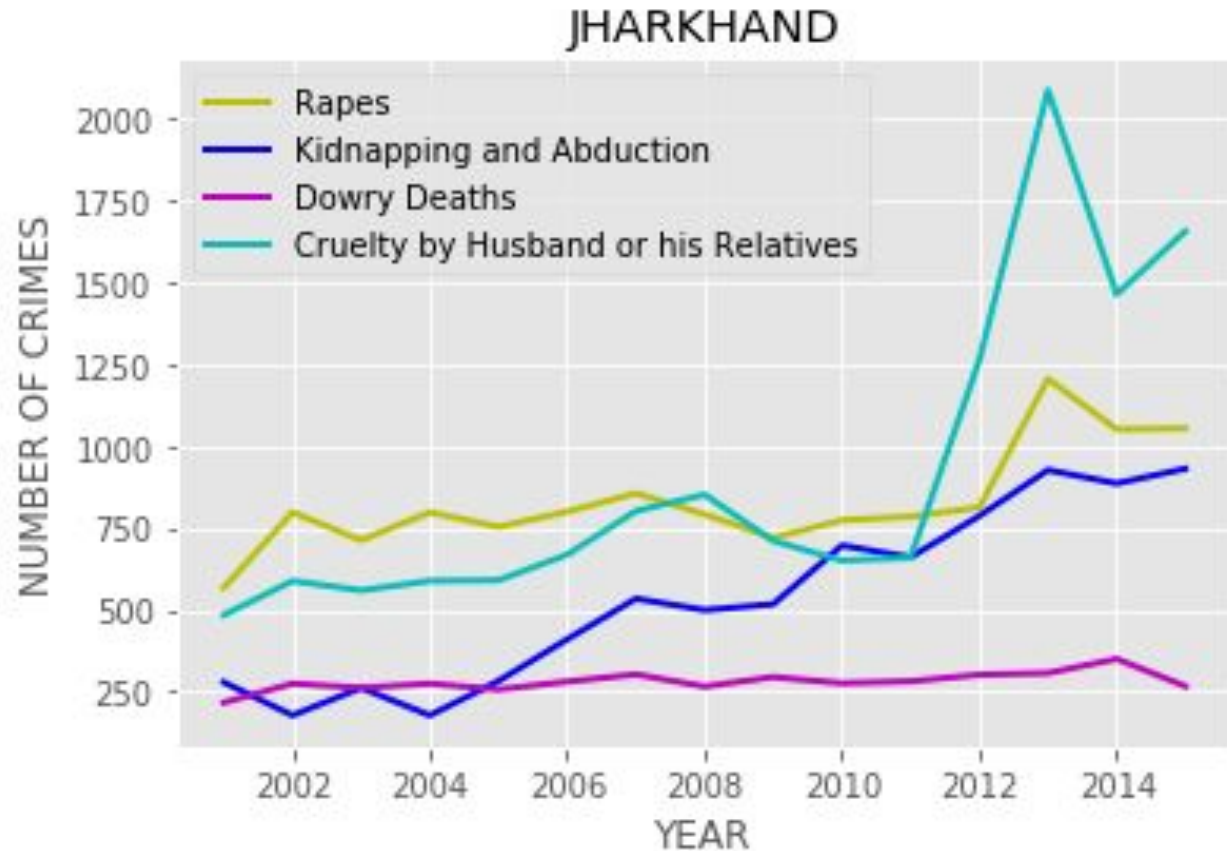
JAMMU & KASHMIR

- KIDNAPPING AND ABDUCTION BEING THE HIGHEST COMMITTED CRIME IN J&K.
- DOWRY DEATHS ARE VERY LOW.



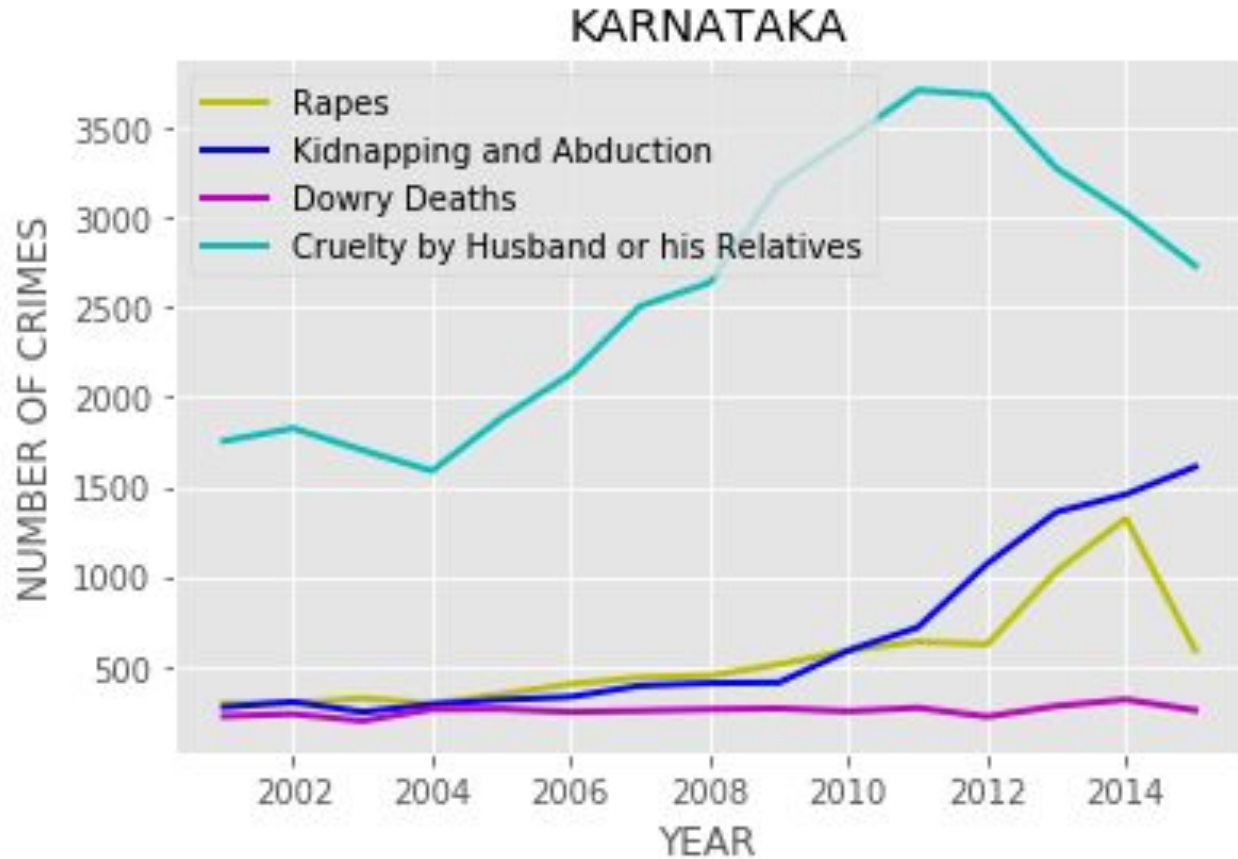
JHARKHAND

- SHARP INCREASE IN CRUELTY CASES FROM 2011 TO 2013.
- DOWRY DEATHS BEING CONSISTENT AND DIDN'T HAVE MUCH INCREASE THROUGHOUT THE TIME.



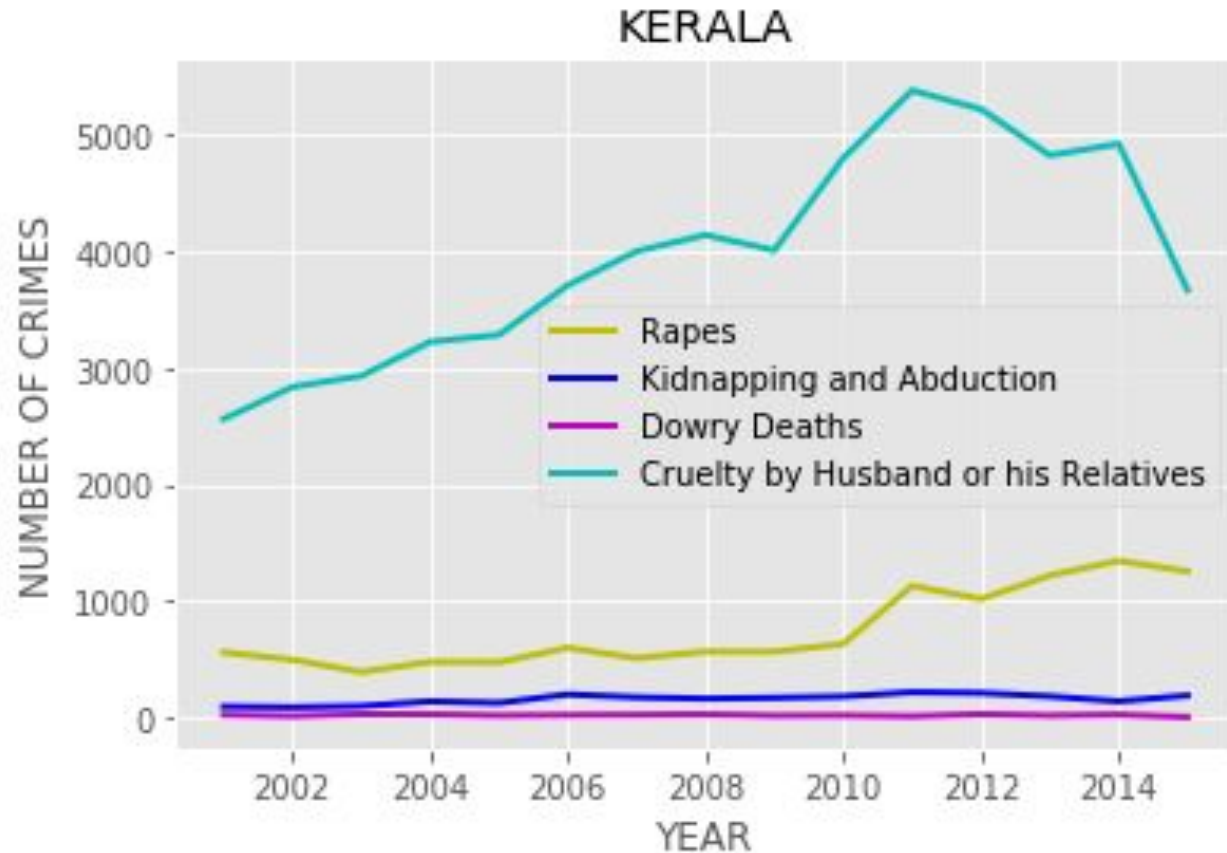
KARNATAKA

- CRUELTY BY HUSBAND OR HIS RELATIVES BEING THE HIGHEST COMMITTED CRIME IN KARNATAKA.
- WHILE KIDNAPPING AND ABDUCTION CASES STILL INCREASING BY THE END OF 2015.



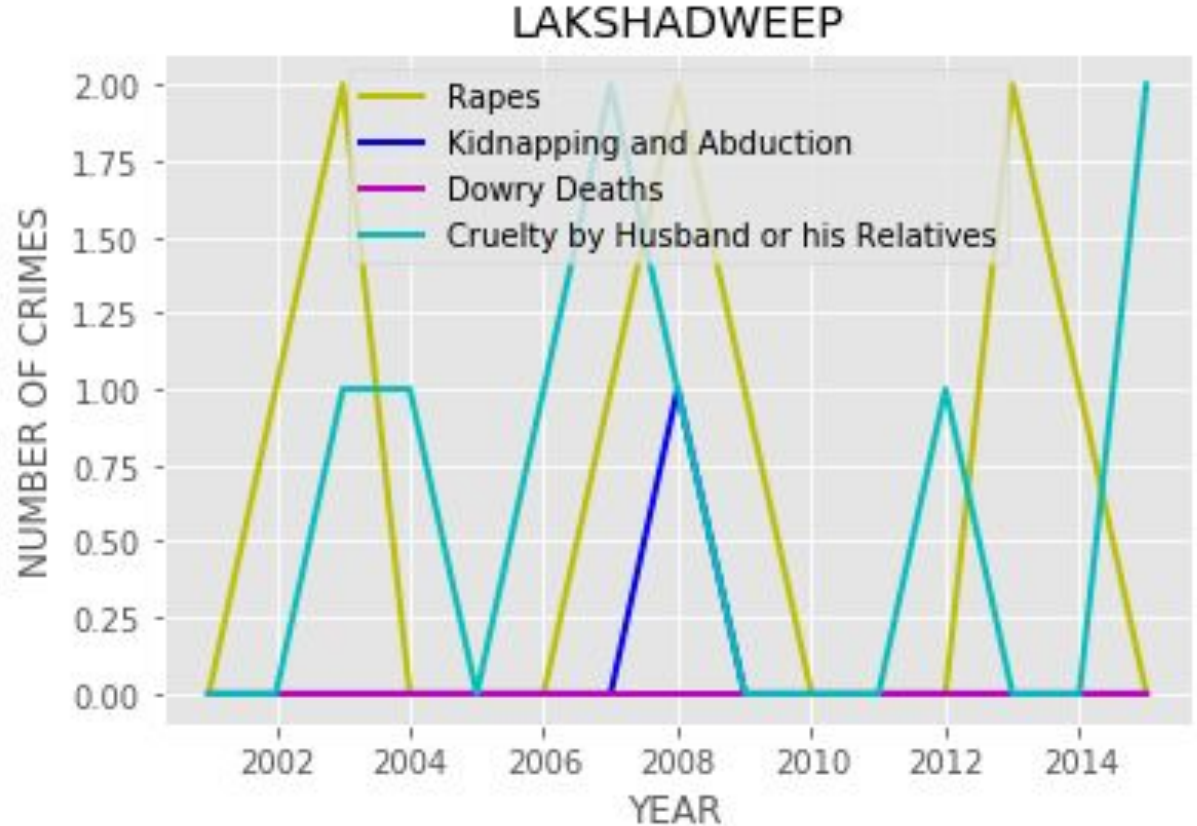
KERALA

- CRUELTY BEING THE HIGHEST CRIME AGAINST WOMEN IN KERALA.
- DOWRY DEATHS BEING VERY LOW THROUGHOUT.



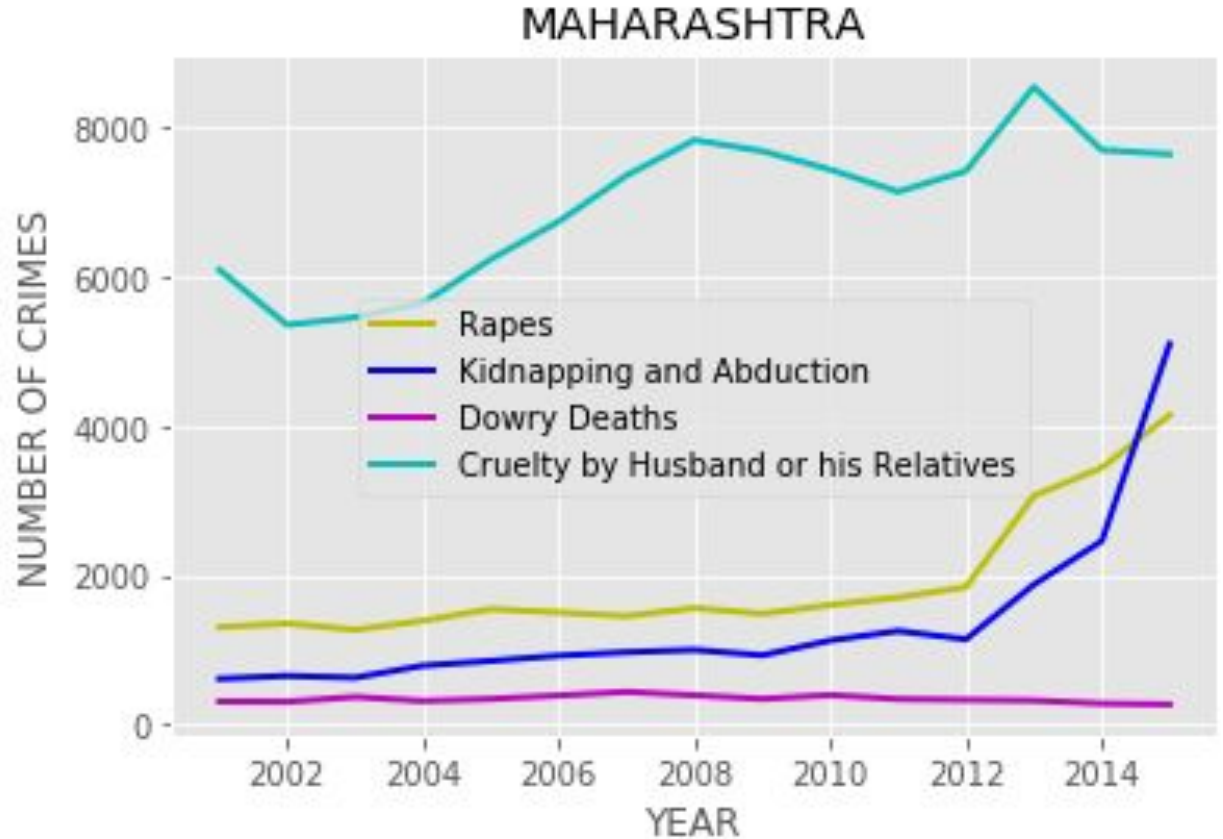
LAKSHADWEEP

- LAKSHADWEEP WITH BEING THE LOWEST NUMBER OF CRIMES AMONG ALL OTHER CASES AS COMPARED TO OTHER CASES.
- POPULATION DENSITY BEING NOT CONSIDERED.



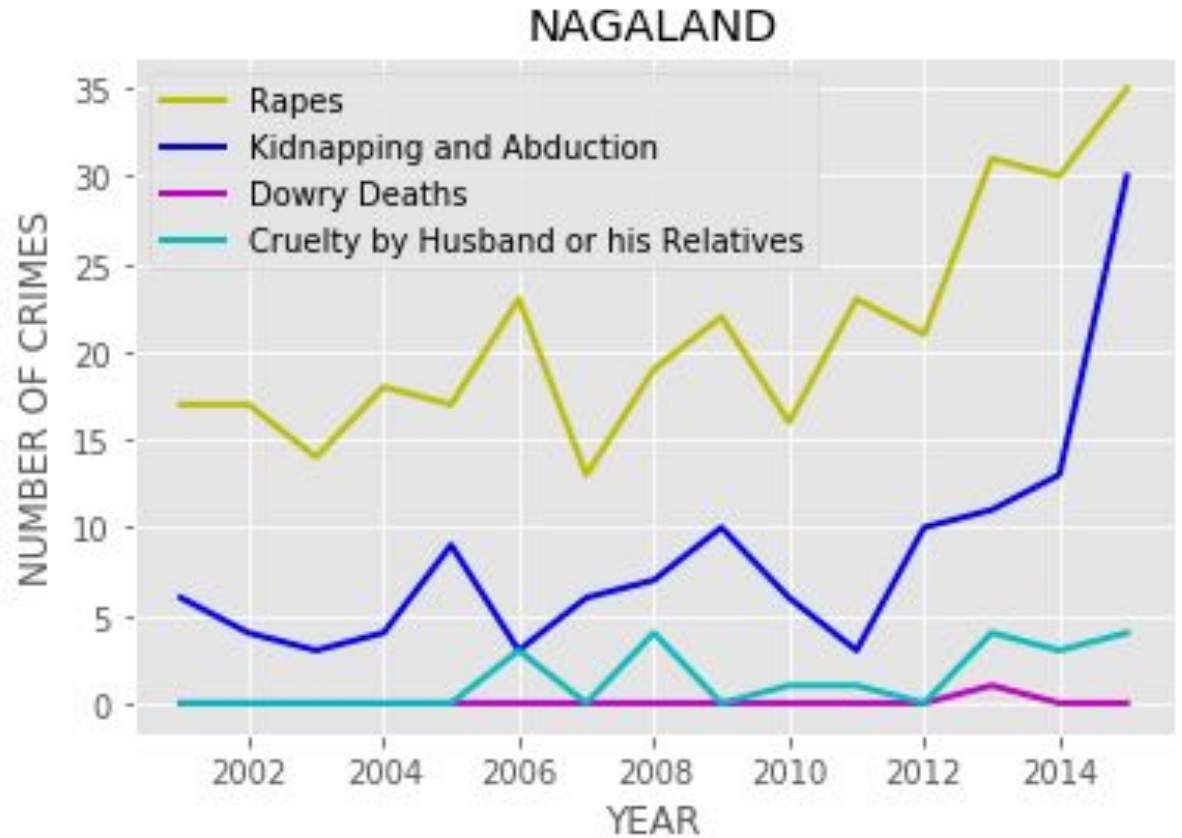
MAHARASHTRA

- HIGH INCREASE IN KIDNAPPING AND ABDUCTION CASES FROM 2014.
- CRUELTY BY HUSBAND OR HIS RELATIVES BEING THE HIGHEST CRIME.



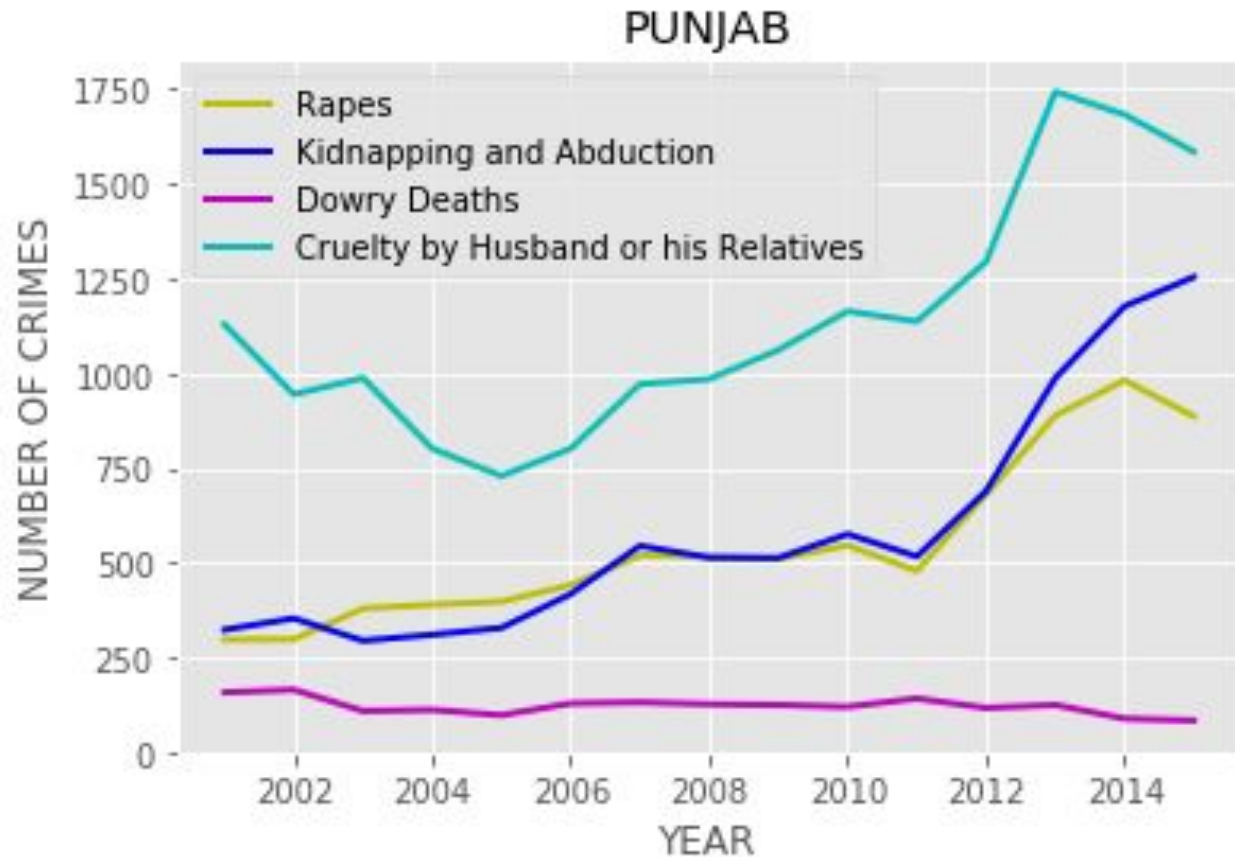
NAGALAND

- NUMBER OF RAPES BEING THE HIGHEST CRIME IN NAGALAND.
- STEEP INCREASE IN NUMBER OF RAPES SINCE 2014 TILL 2015.



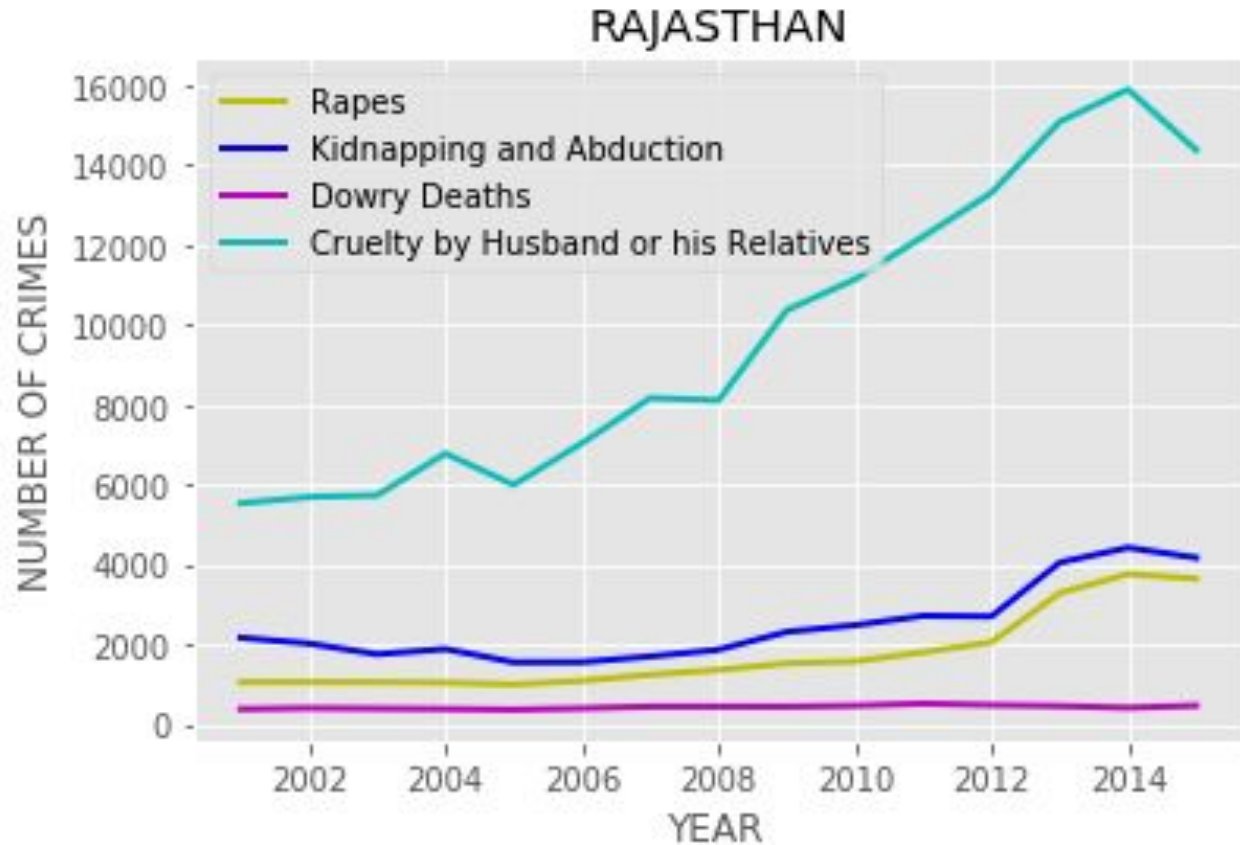
PUNJAB

- INCREASE IN NUMBER OF KIDNAPPING AND ABDUCTION CASES AND RAPES SINCE 2011 TILL 2015.
- DOWRY DEATHS SAW A FALL SINCE 2001 TILL 2015.



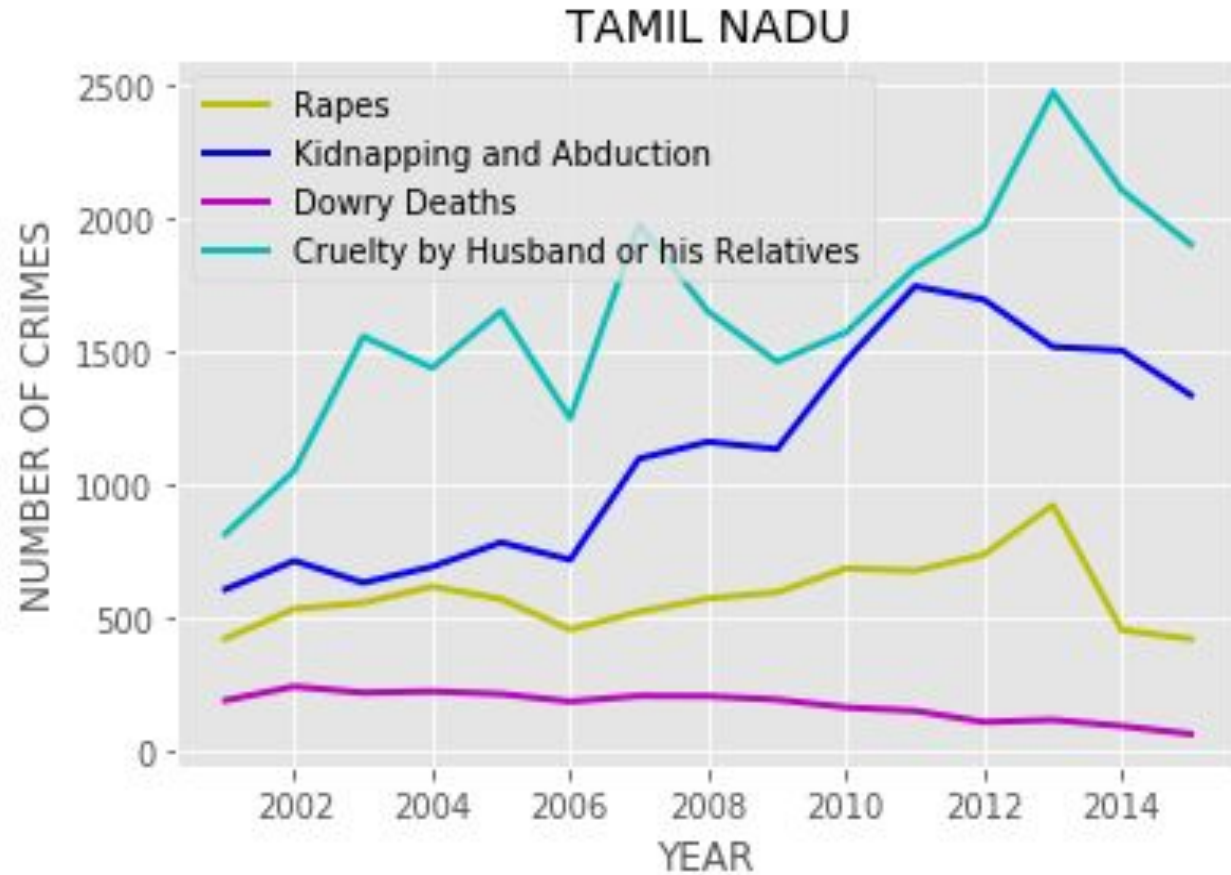
RAJASTHAN

- RAJASTHAN BEING HAVING VERY NUMBER OF CRUELTY BY HUSBAND OR HIS RELATIVES.
- CONSISTENCY IN DOWRY DEATHS CASES THROUGHOUT THE TIME.



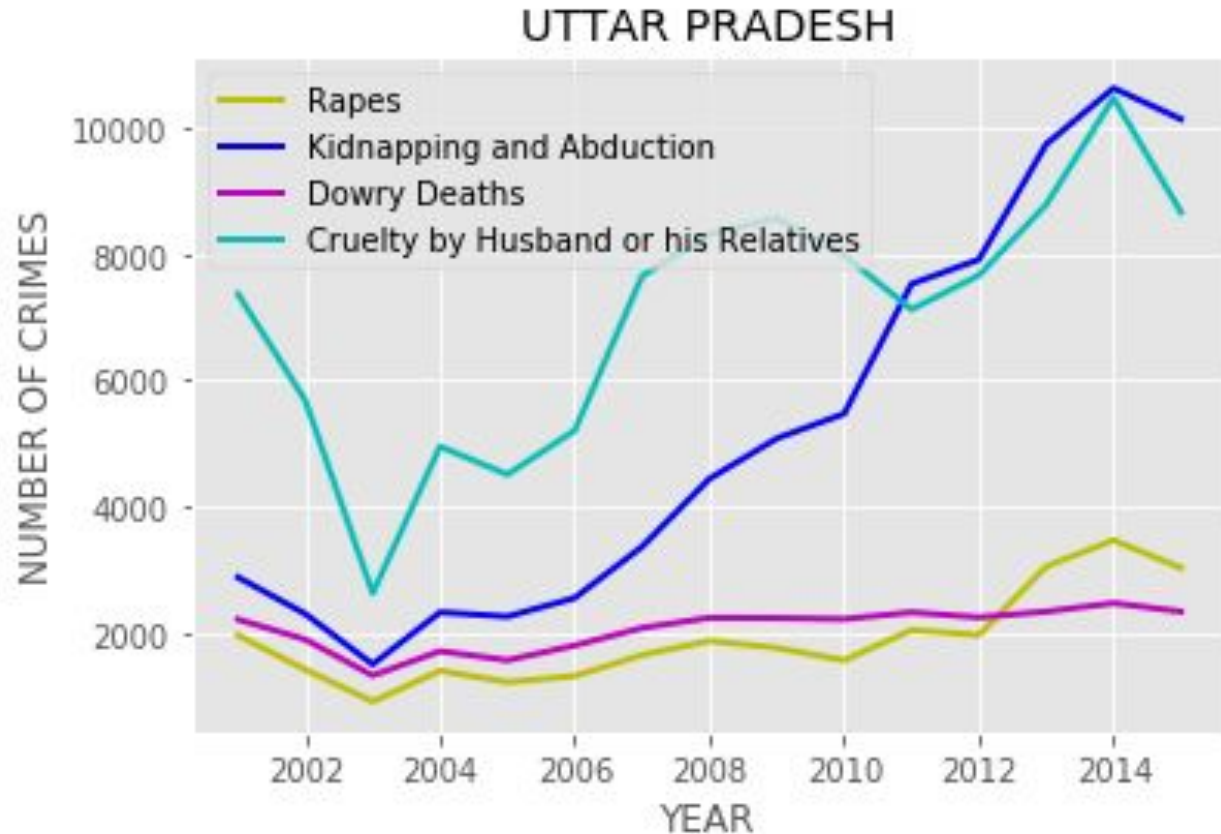
TAMIL NADU

- OVERALL DECREASE IN CRIME RATES SINCE 2013 TILL THE END OF 2015.



UTTAR PRADESH

- UTTAR PRADESH SAW VERY HIGH NUMBER OF CRUELTY BY HUSBAND OR HIS RELATIVES WITH KIDNAPPING AND ABDUCTION BEING THE HIGHEST.



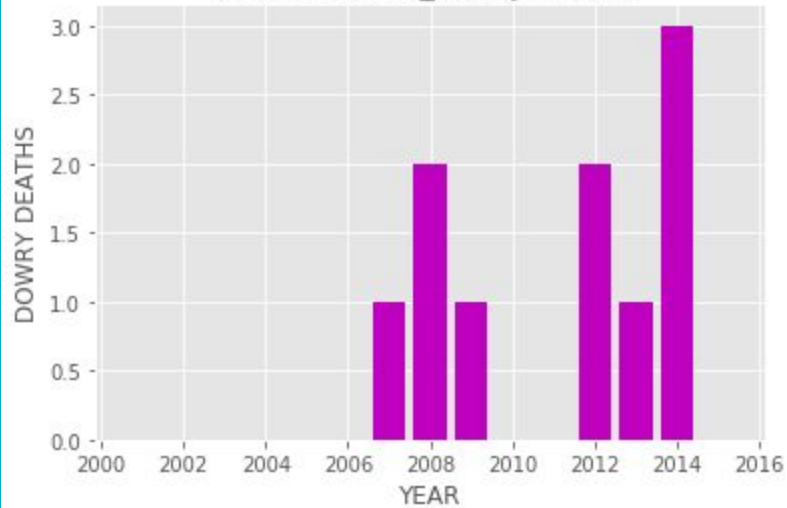
Visualizations 3 – Dowry Deaths

With these visualizations we tried to show how women's are losing lives for dowry demands in different states.

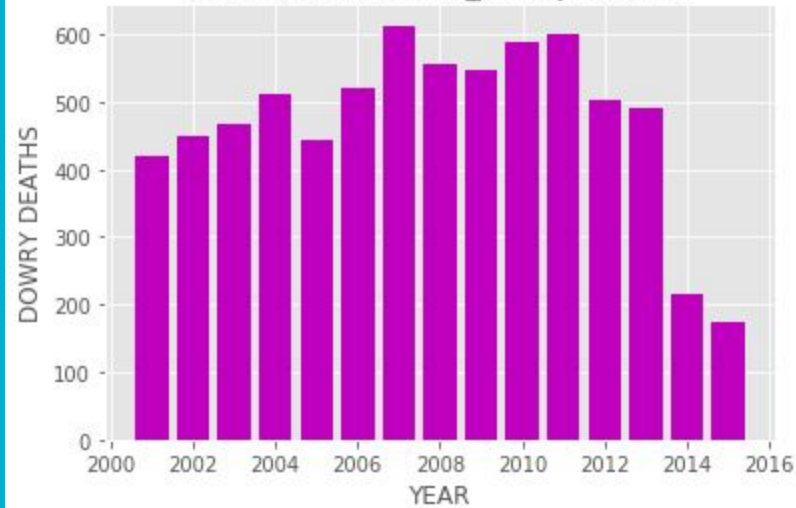
Changes in Numbers of such incidents also shows how mentality of people changing over time or is it getting worse.

As we can't put all graphs here, so we have graphs for major cities as follows:

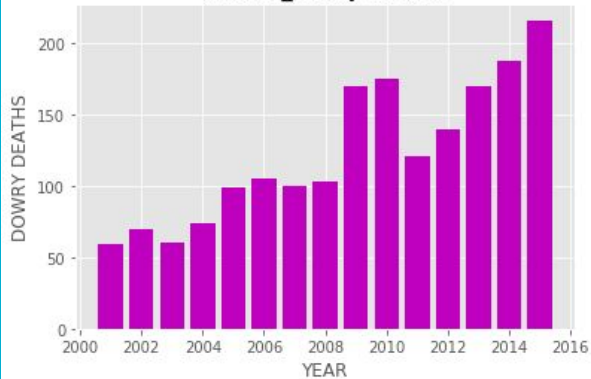
A&N ISLANDS_Dowry Deaths



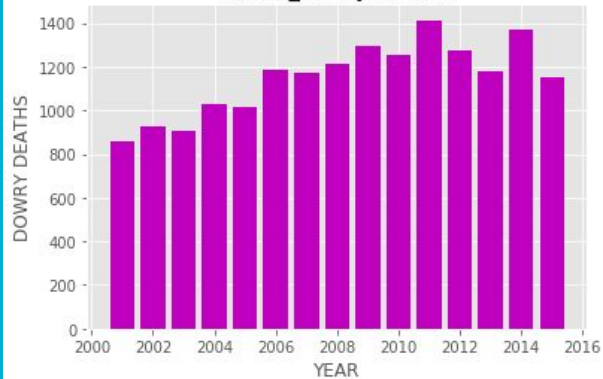
ANDHRA PRADESH_Dowry Deaths



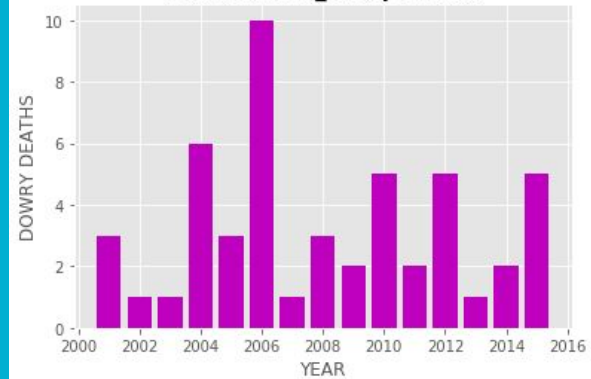
ASSAM_Dowry Deaths



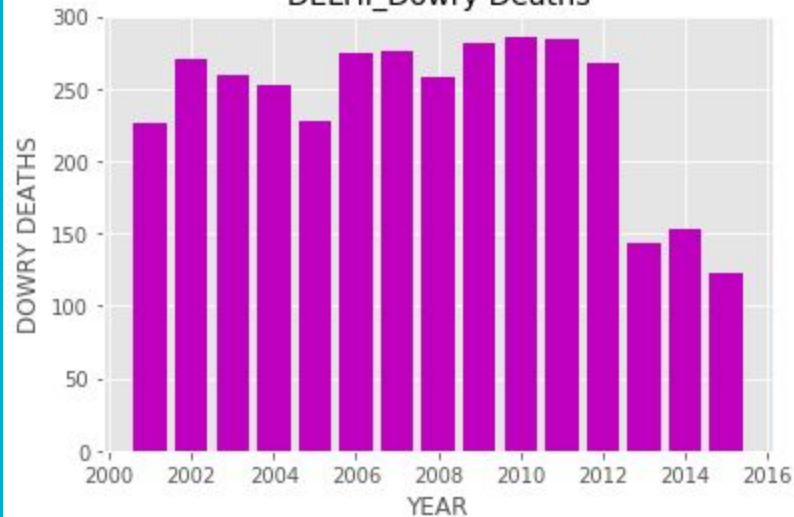
BIHAR_Dowry Deaths



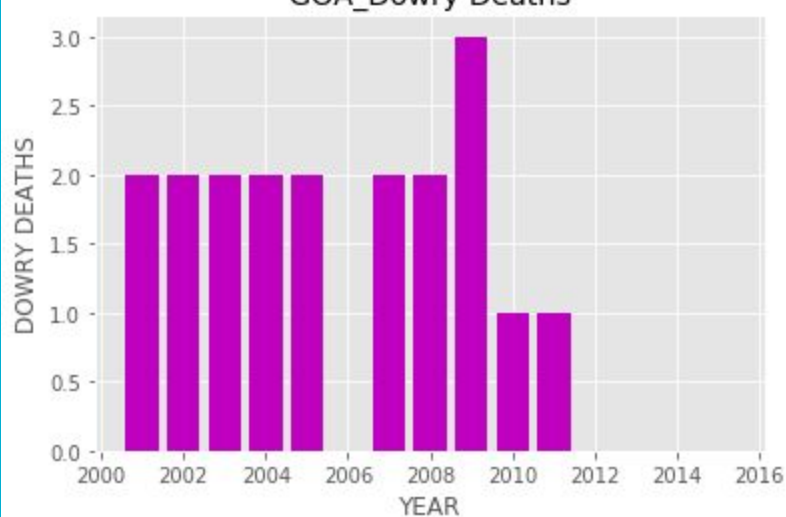
CHANDIGARH_Dowry Deaths



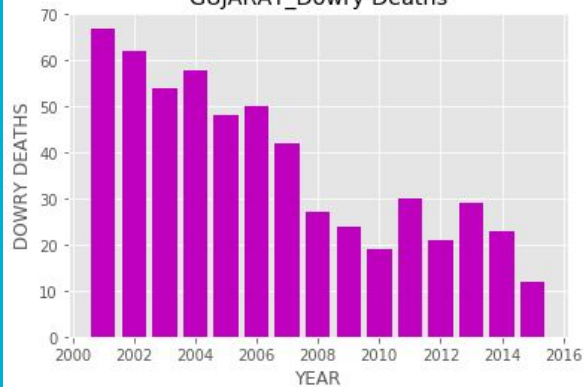
DELHI_Dowry Deaths



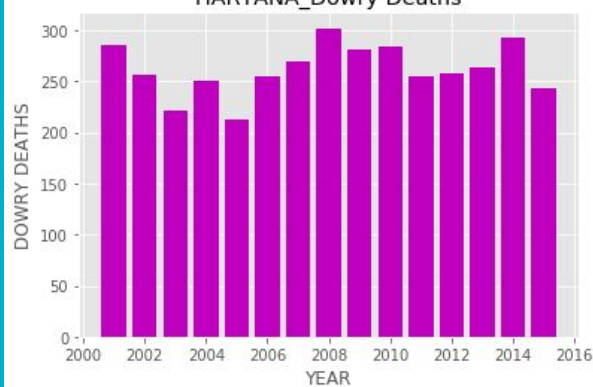
GOA_Dowry Deaths



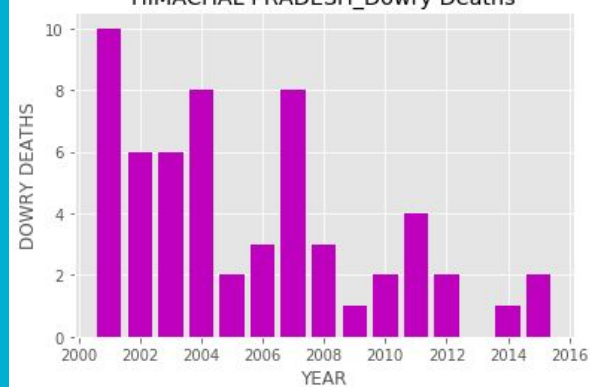
GUJARAT_Dowry Deaths



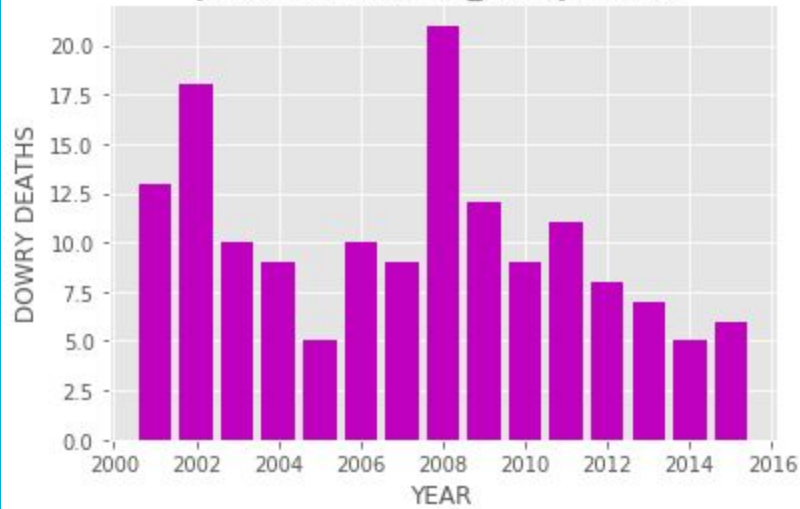
HARYANA_Dowry Deaths



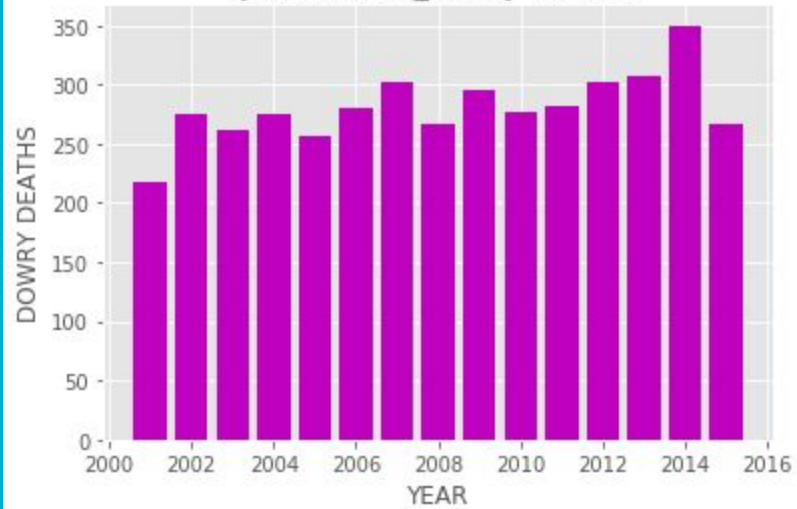
HIMACHAL PRADESH_Dowry Deaths



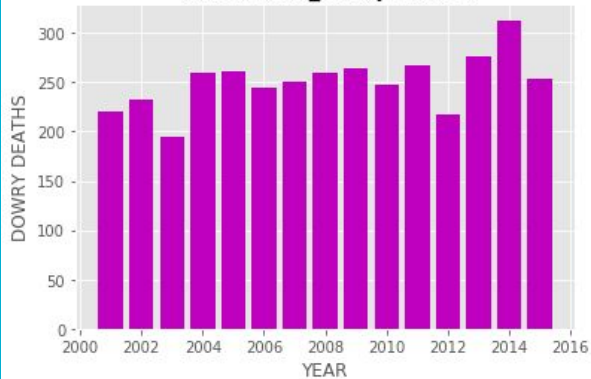
JAMMU & KASHMIR_Dowry Deaths



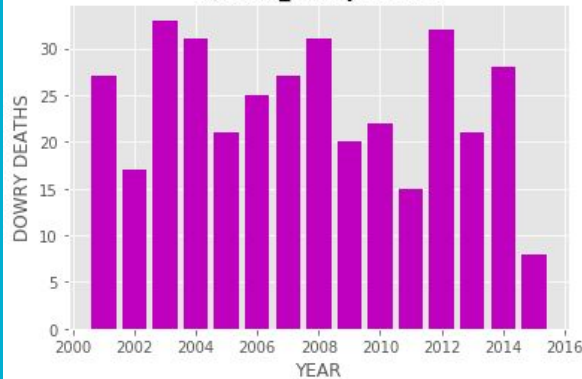
JHARKHAND_Dowry Deaths



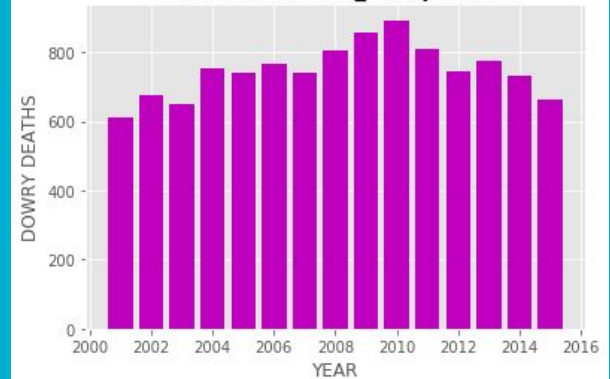
KARNATAKA_Dowry Deaths



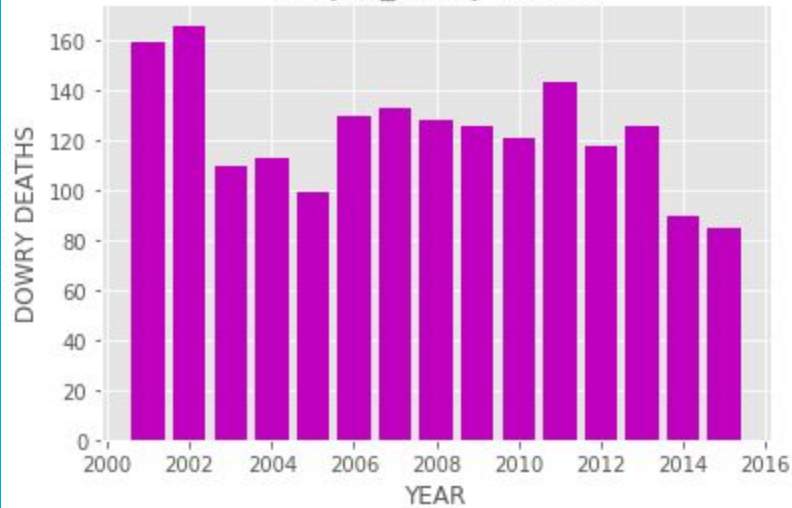
KERALA_Dowry Deaths



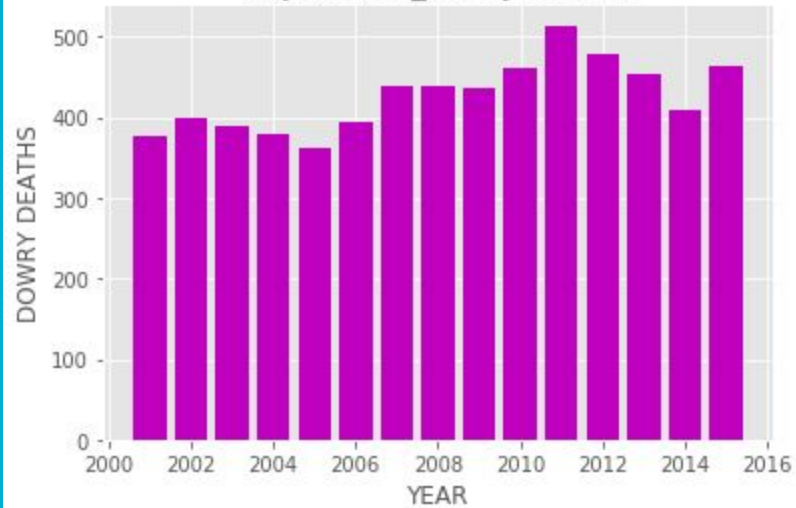
MADHYA PRADESH_Dowry Deaths



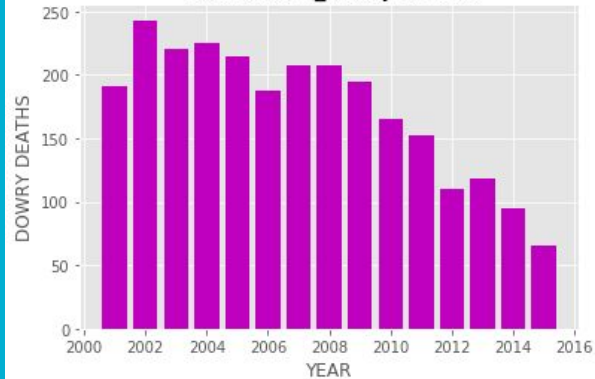
PUNJAB_Dowry Deaths



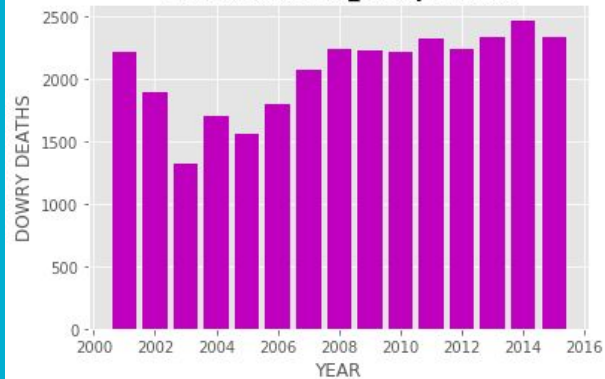
RAJASTHAN_Dowry Deaths



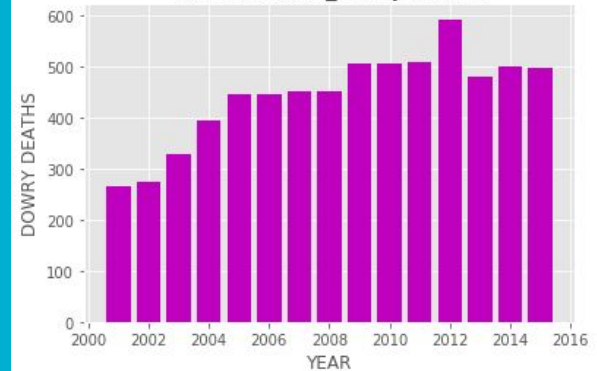
TAMIL NADU_Dowry Deaths



UTTAR PRADESH_Dowry Deaths



WEST BENGAL_Dowry Deaths

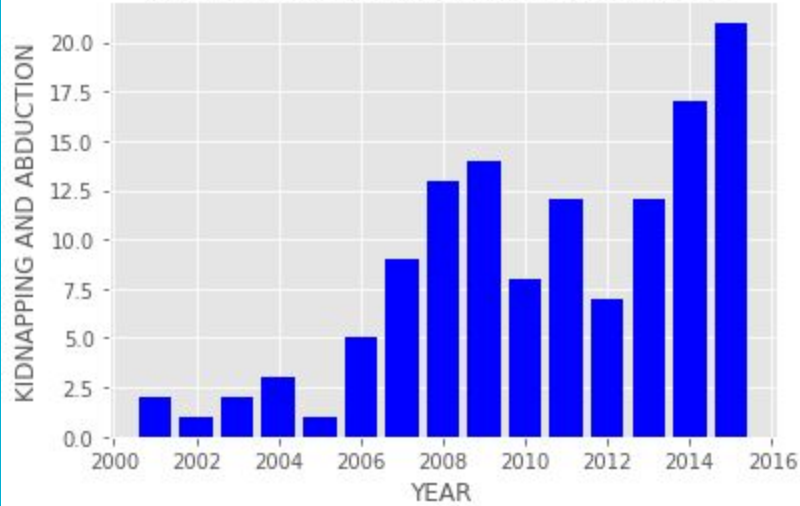


Visualizations 4 – KIDNAPPING AND ABDUCTION

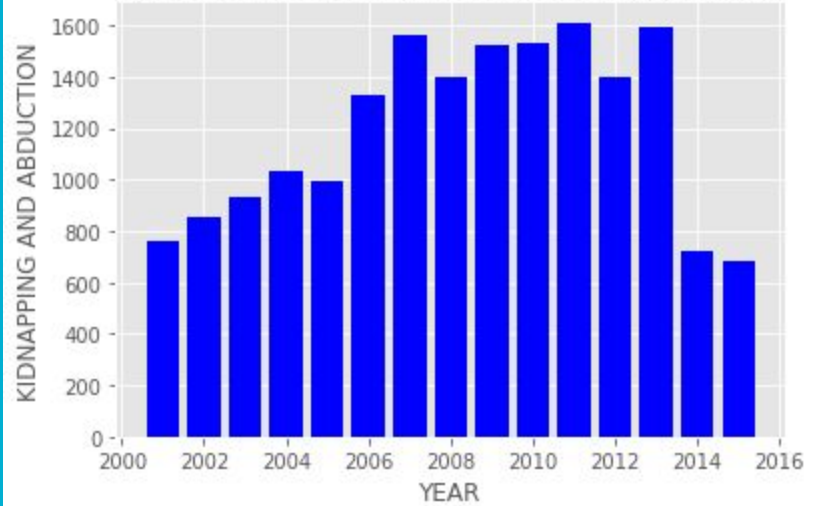
With these visualizations we tried to show Kidnapping and Abduction cases in different states over given span of time.

As we can't put all graphs here, so we have graphs for major cities as follows:

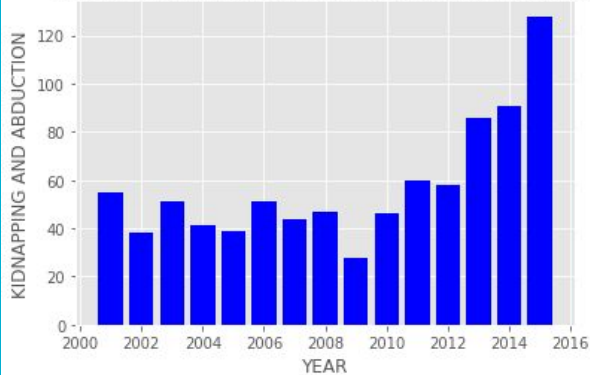
A&N ISLANDS_Kidnapping and Abduction



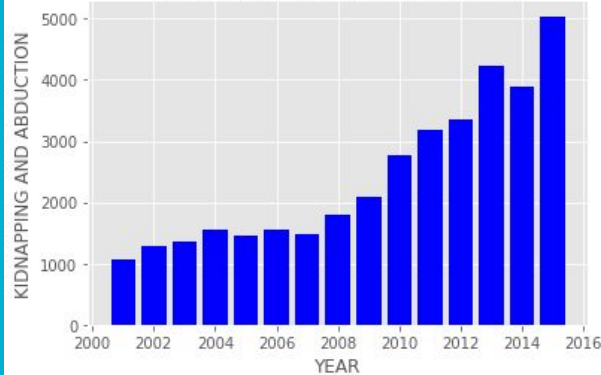
ANDHRA PRADESH_Kidnapping and Abduction



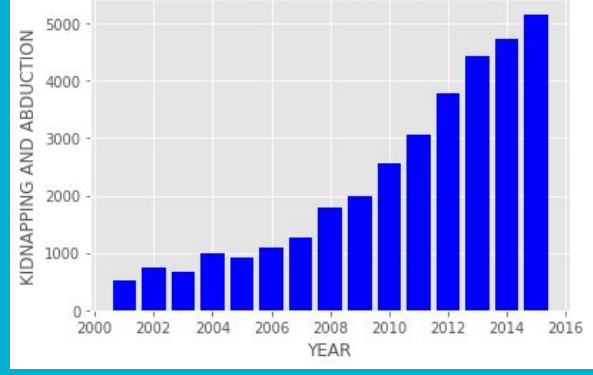
ARUNACHAL PRADESH_Kidnapping and Abduction



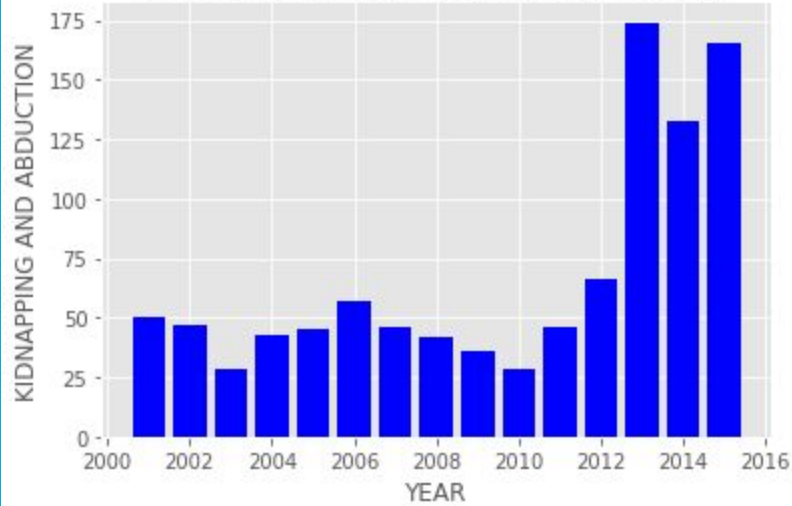
ASSAM_Kidnapping and Abduction



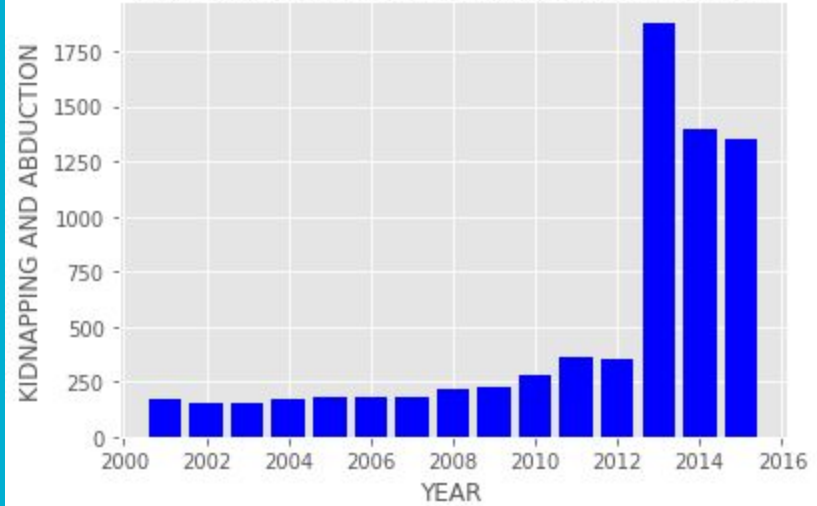
BIHAR_Kidnapping and Abduction



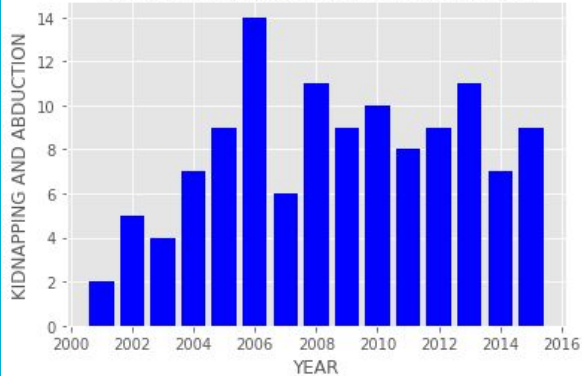
CHANDIGARH_Kidnapping and Abduction



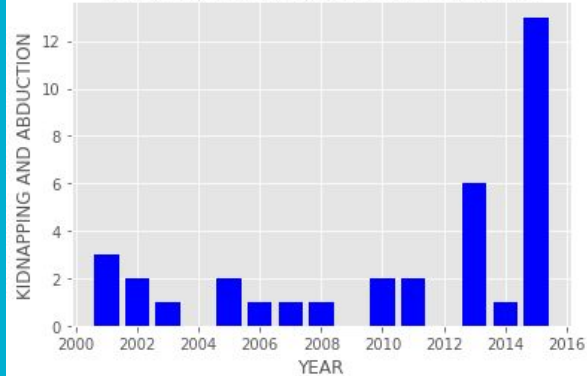
CHHATTISGARH_Kidnapping and Abduction



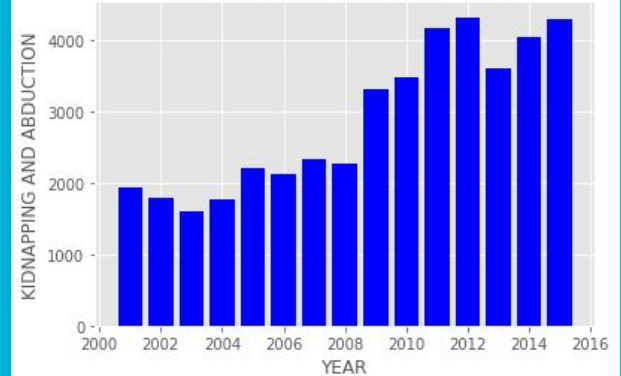
D&N HAVELI_Kidnapping and Abduction



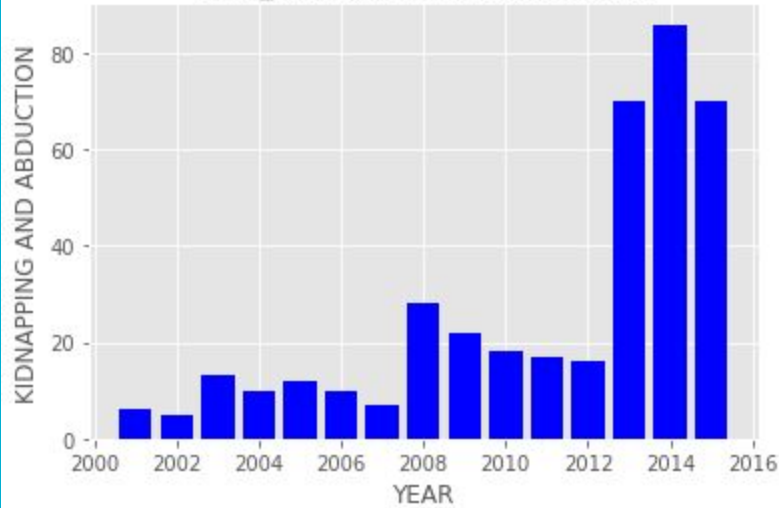
DAMAN & DIU_Kidnapping and Abduction



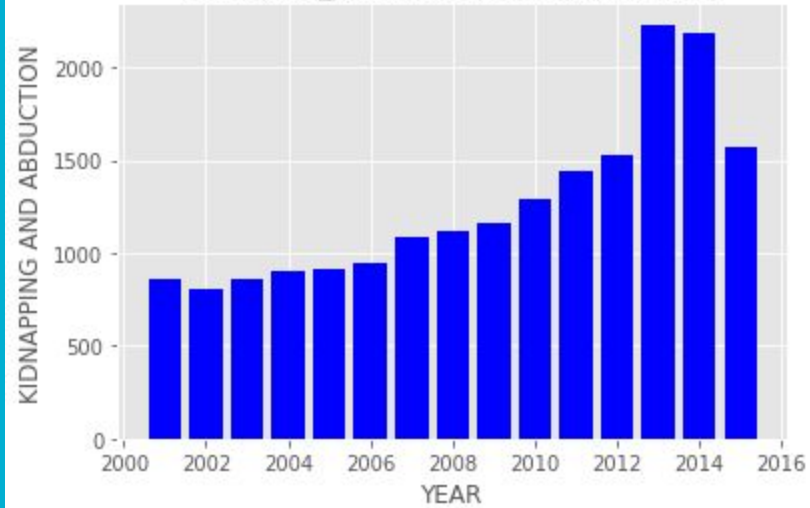
DELHI_Kidnapping and Abduction



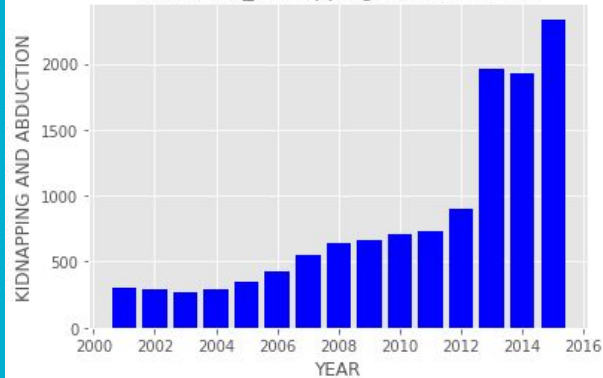
GOA_Kidnapping and Abduction



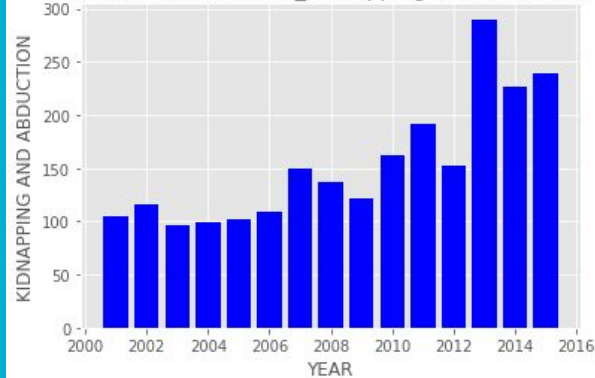
GUJARAT_Kidnapping and Abduction



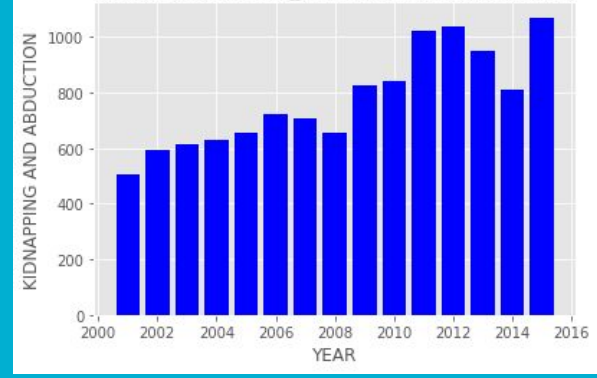
HARYANA_Kidnapping and Abduction



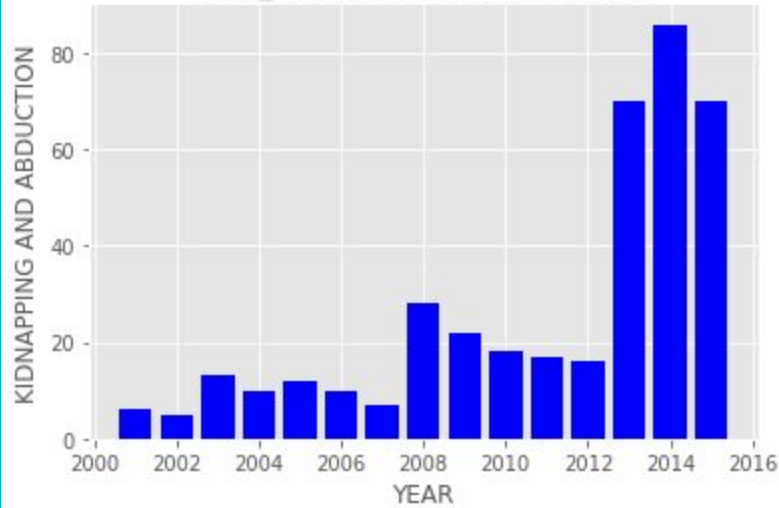
HIMACHAL PRADESH_Kidnapping and Abduction



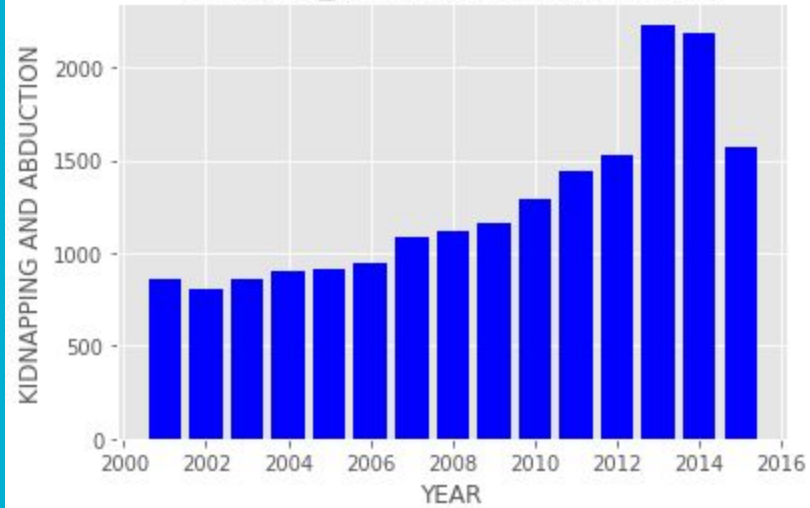
JAMMU & KASHMIR_Kidnapping and Abduction



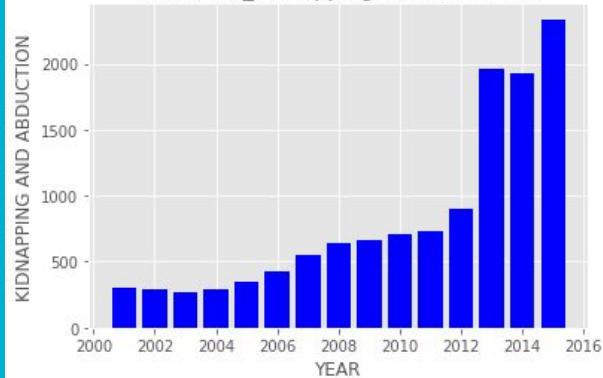
GOA_Kidnapping and Abduction



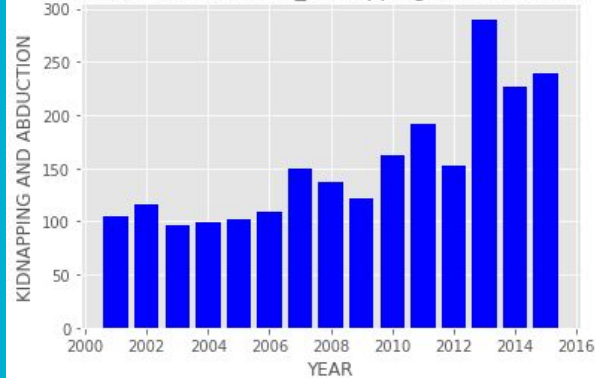
GUJARAT_Kidnapping and Abduction



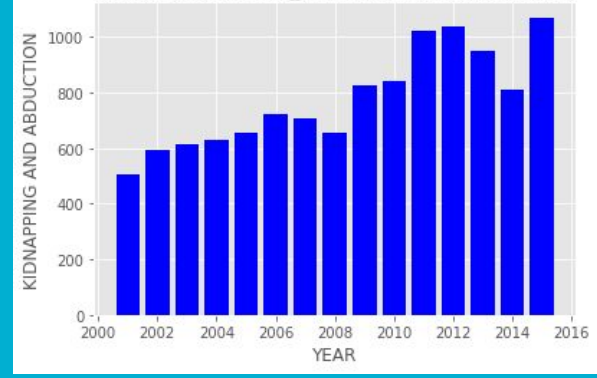
HARYANA_Kidnapping and Abduction



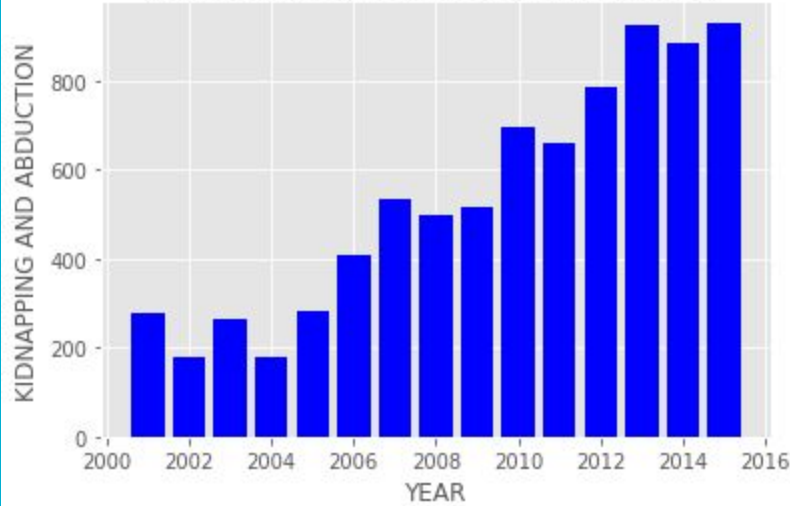
HIMACHAL PRADESH_Kidnapping and Abduction



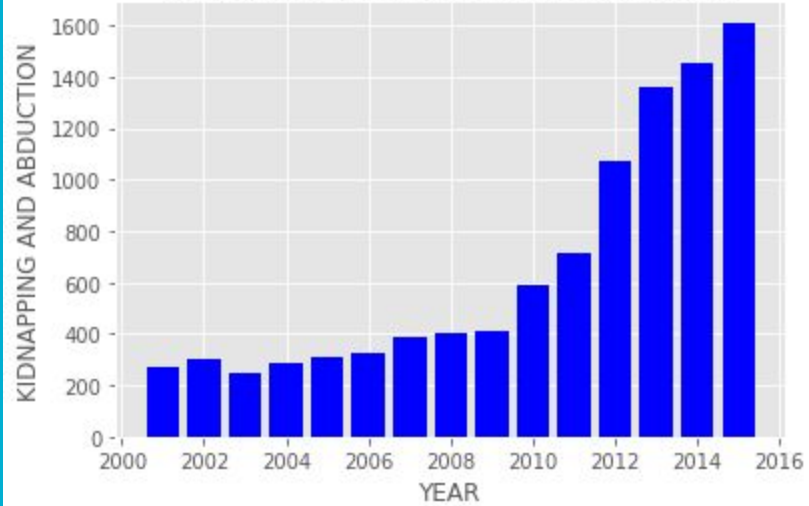
JAMMU & KASHMIR_Kidnapping and Abduction



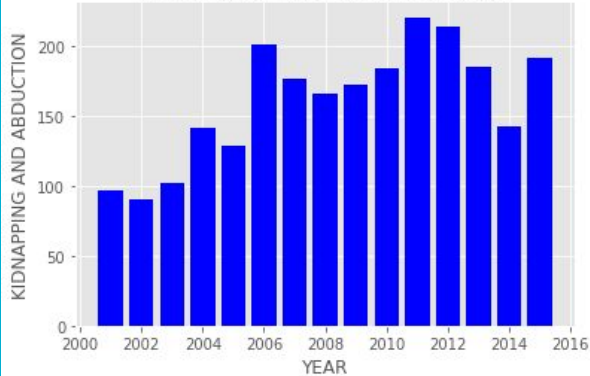
JHARKHAND_Kidnapping and Abduction



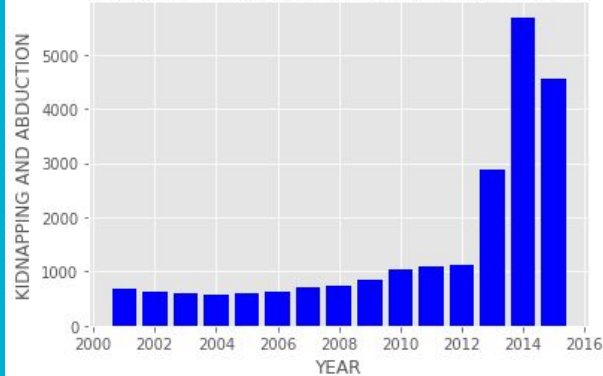
KARNATAKA_Kidnapping and Abduction



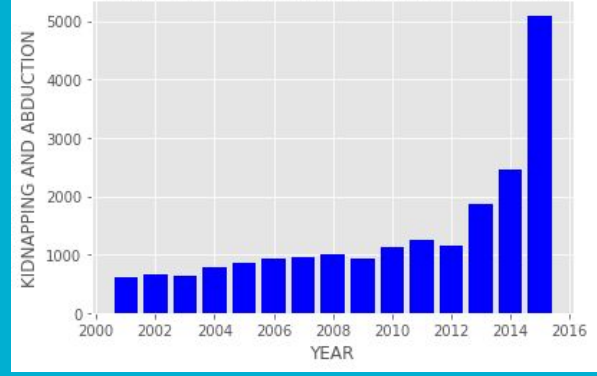
KERALA_Kidnapping and Abduction



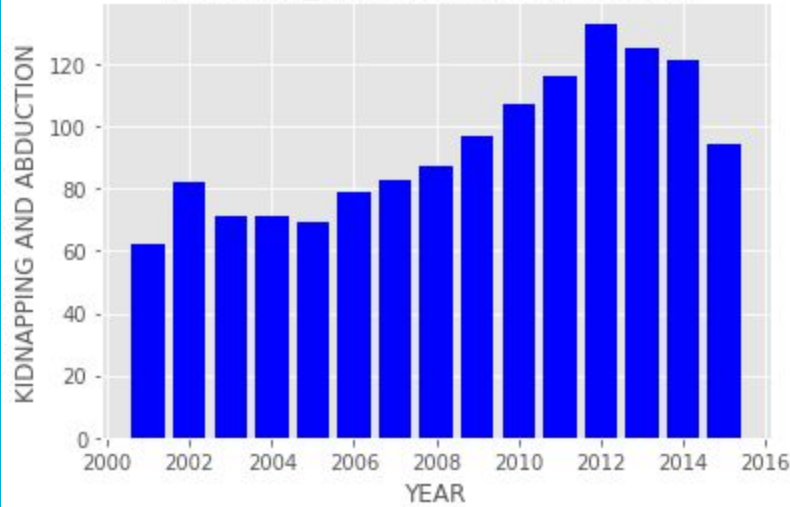
MADHYA PRADESH_Kidnapping and Abduction



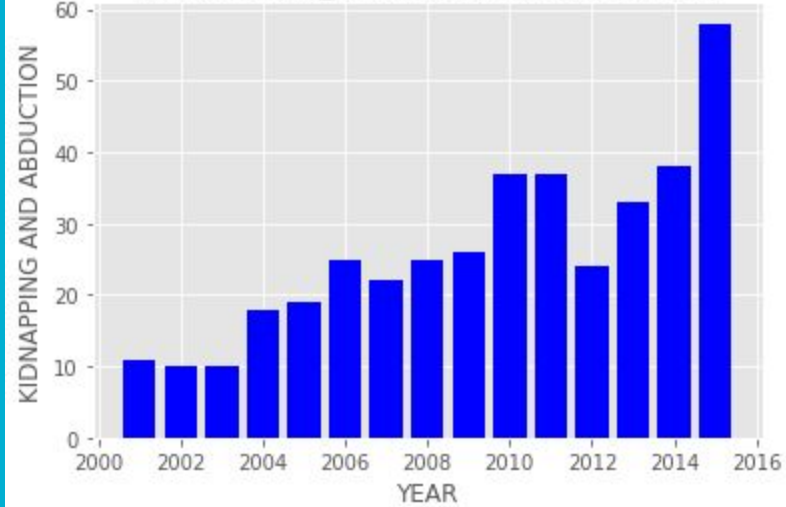
MAHARASHTRA_Kidnapping and Abduction



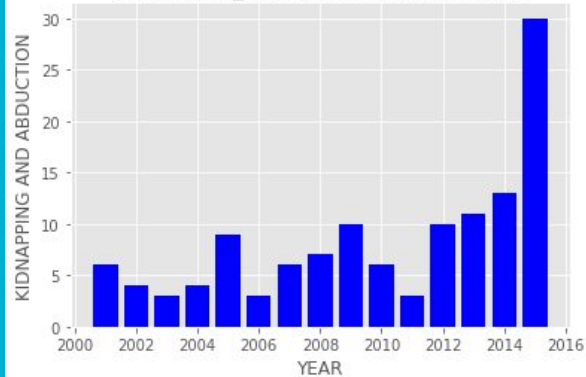
MANIPUR_Kidnapping and Abduction



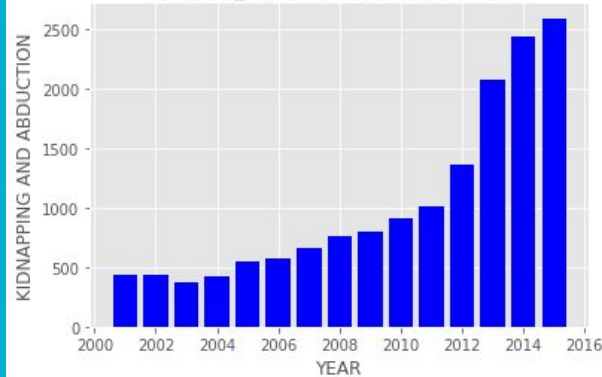
MEGHALAYA_Kidnapping and Abduction



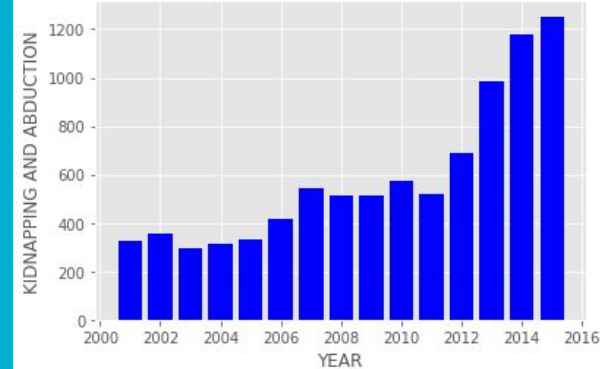
NAGALAND_Kidnapping and Abduction



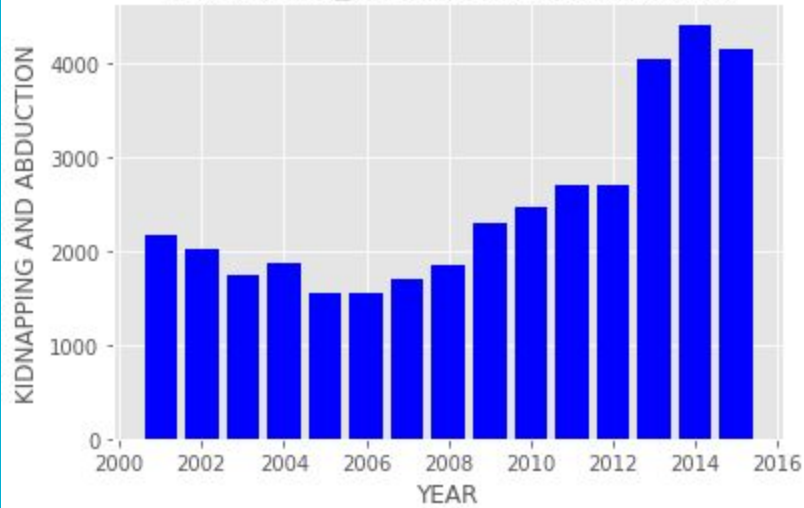
ODISHA_Kidnapping and Abduction



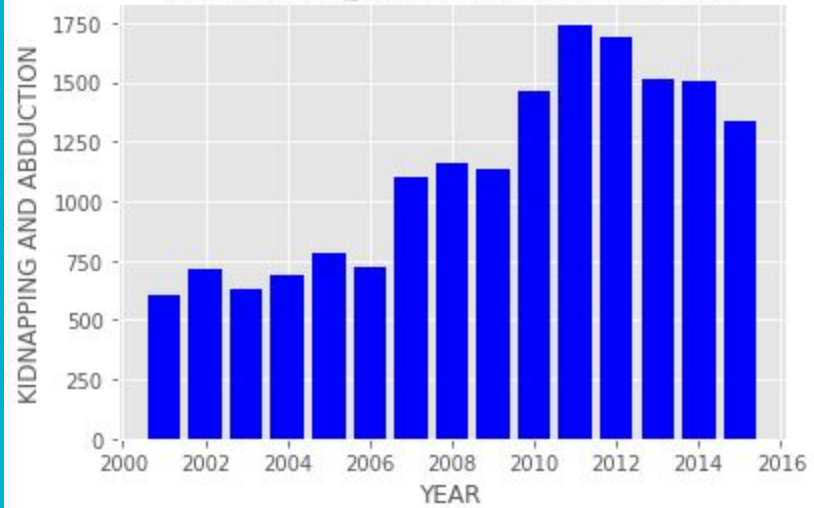
PUNJAB_Kidnapping and Abduction



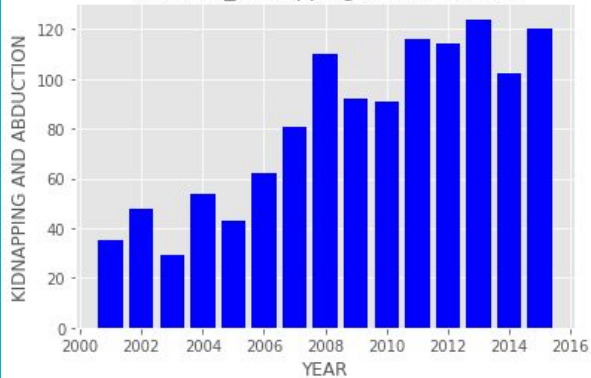
RAJASTHAN_Kidnapping and Abduction



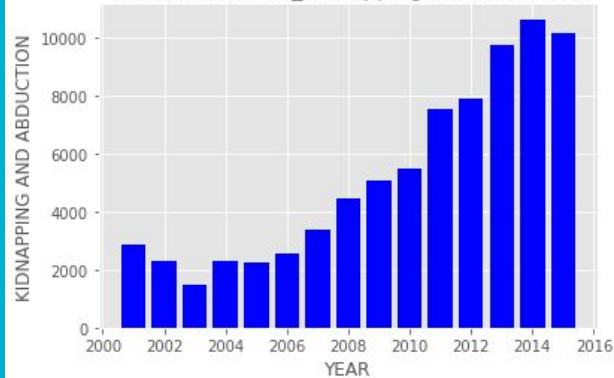
TAMIL NADU_Kidnapping and Abduction



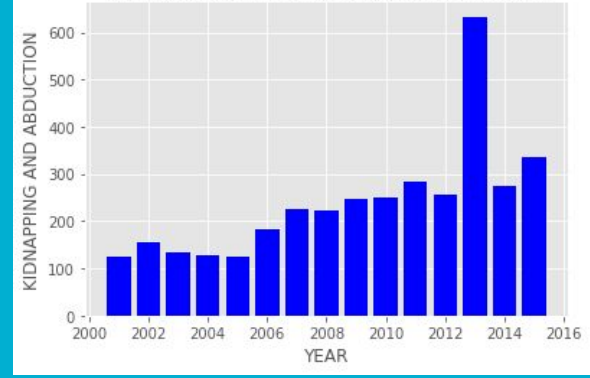
TRIPURA_Kidnapping and Abduction



UTTAR PRADESH_Kidnapping and Abduction



UTTARAKHAND_Kidnapping and Abduction



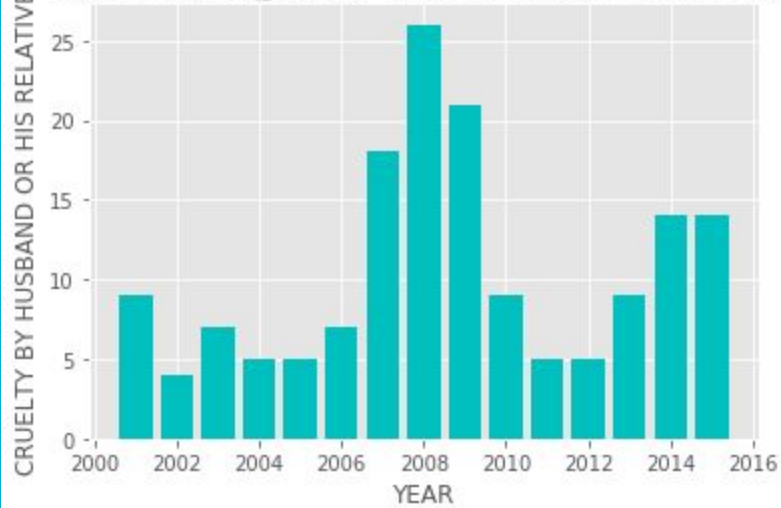
Visualizations 5 – Cruelty by husband or his Relatives

With these visualizations we tried to show how women face cruelty after marriage by her husband or his relatives in different states.

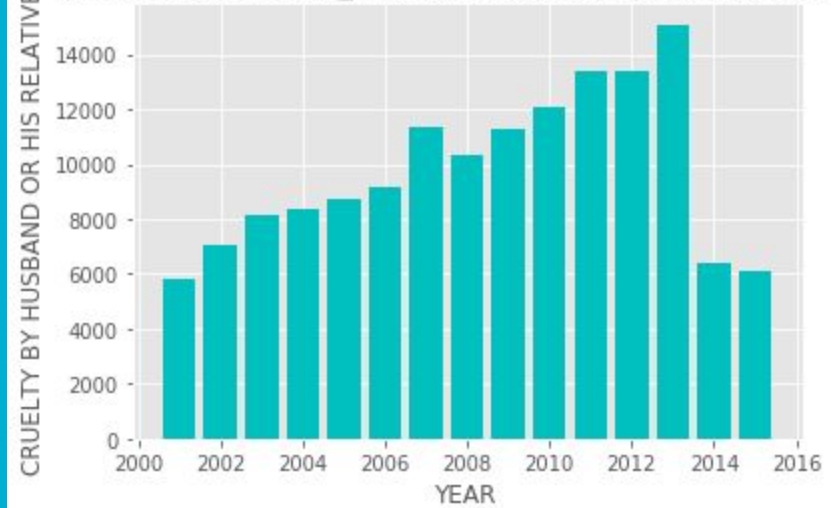
Changes in Numbers of such incidents also shows how mentality of people changing over time or is it getting worse.

As we can't put all graphs here, so we have graphs for major cities as follows:

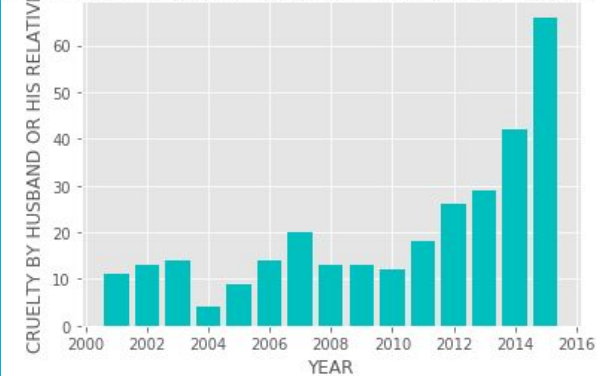
A&N ISLANDS_Cruelty by Husband or his Relatives



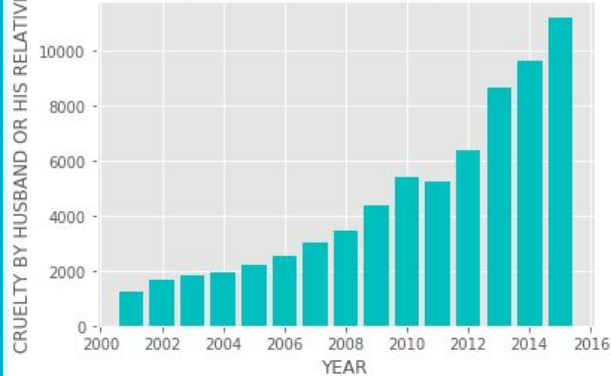
ANDHRA PRADESH_Cruelty by Husband or his Relatives



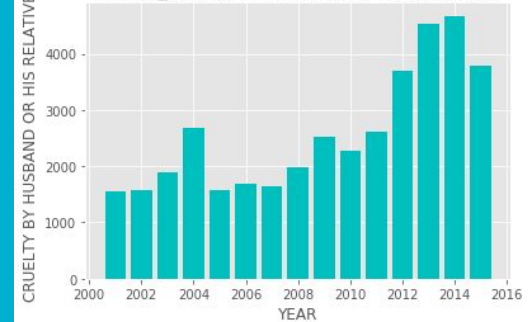
ARUNACHAL PRADESH_Cruelty by Husband or his Relatives

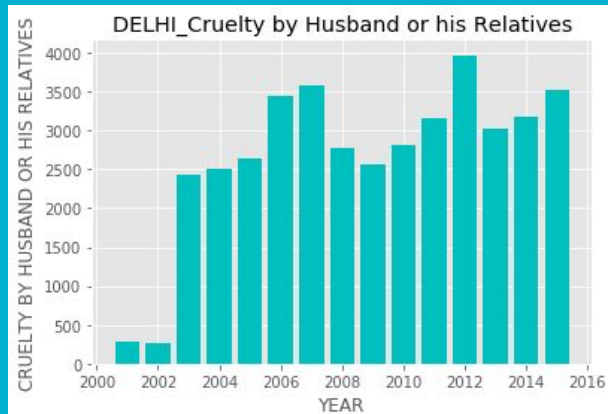
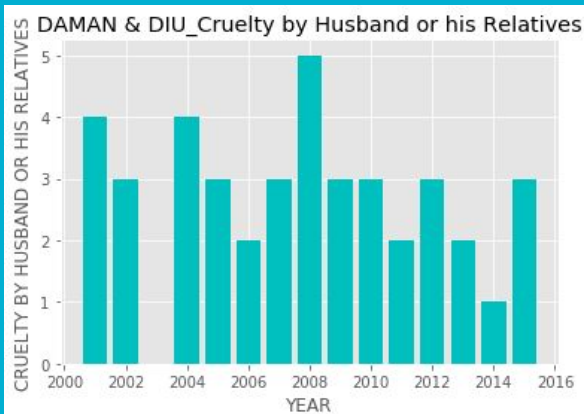
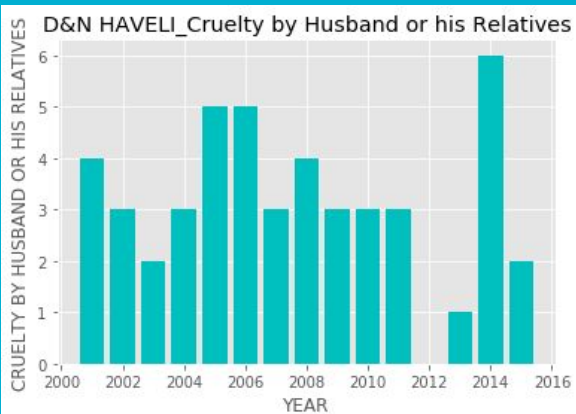
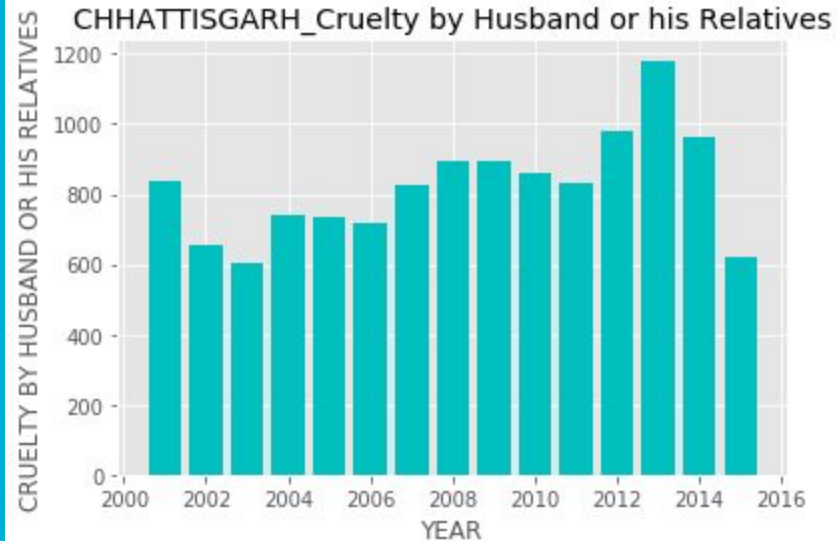
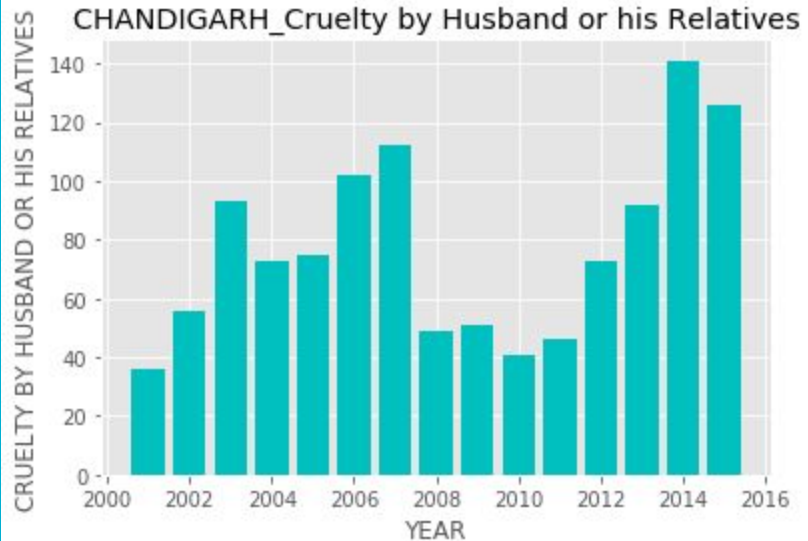


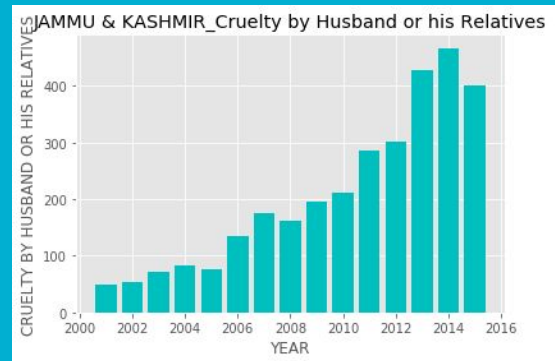
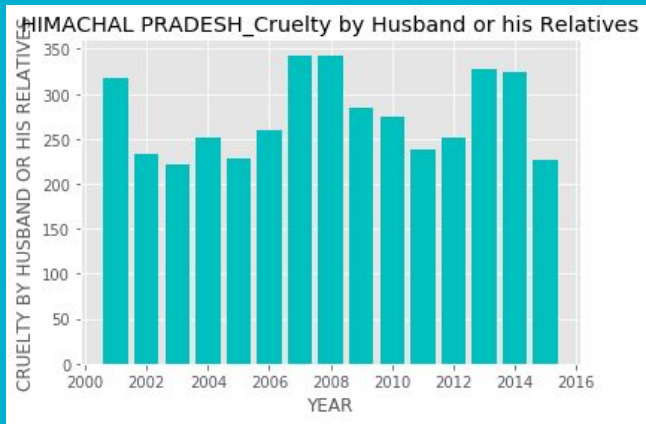
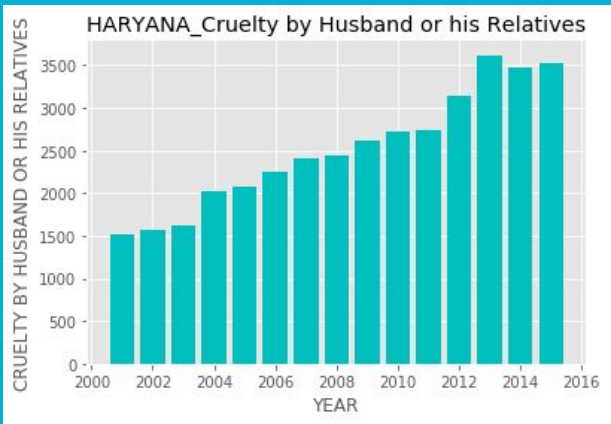
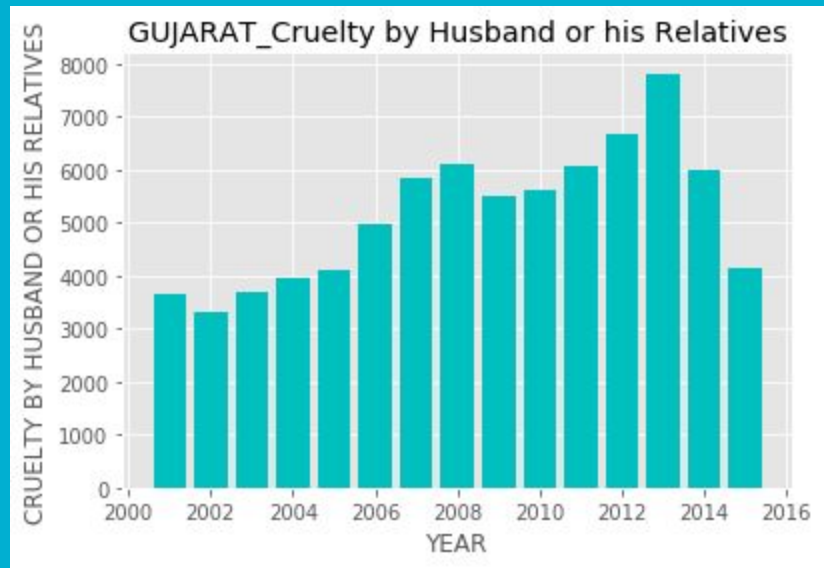
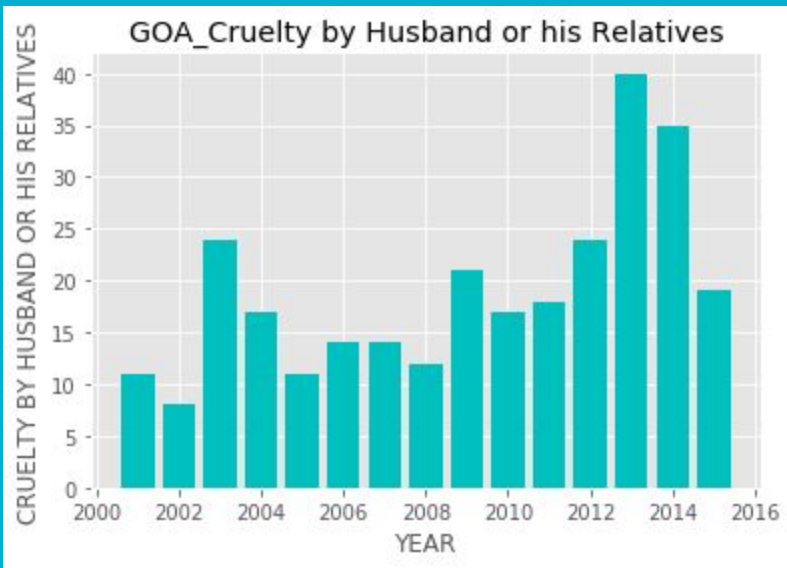
ASSAM_Cruelty by Husband or his Relatives

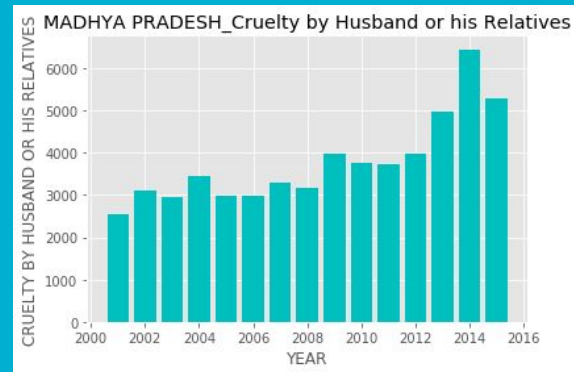
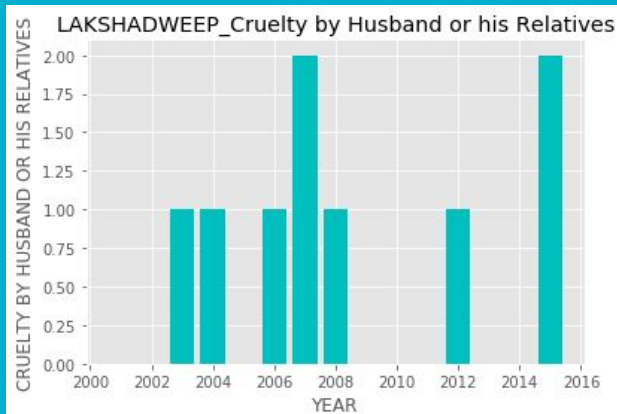
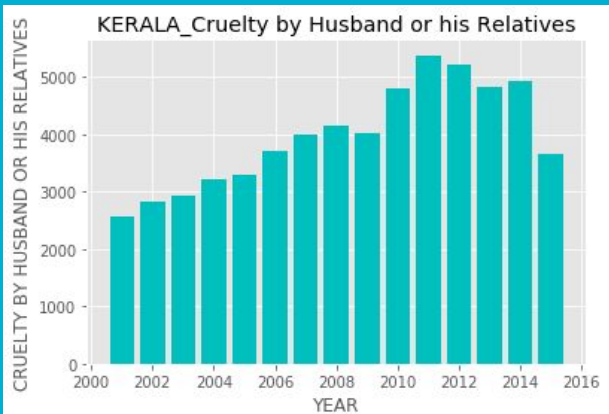
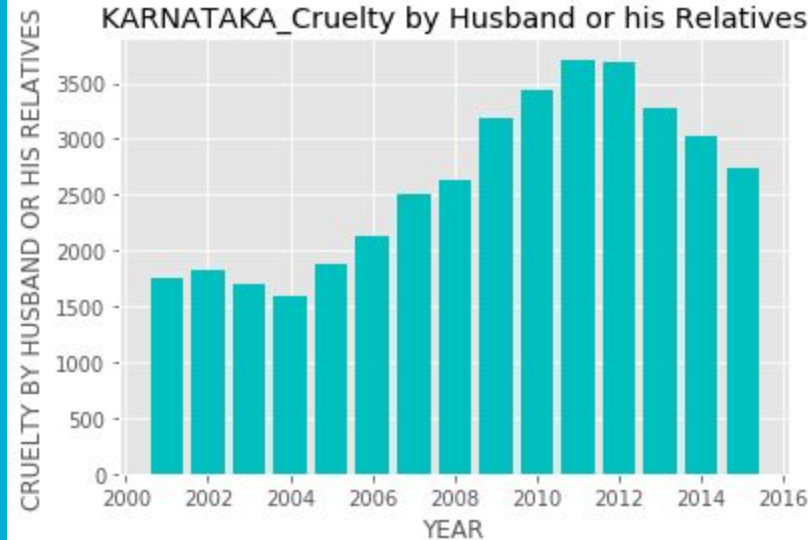
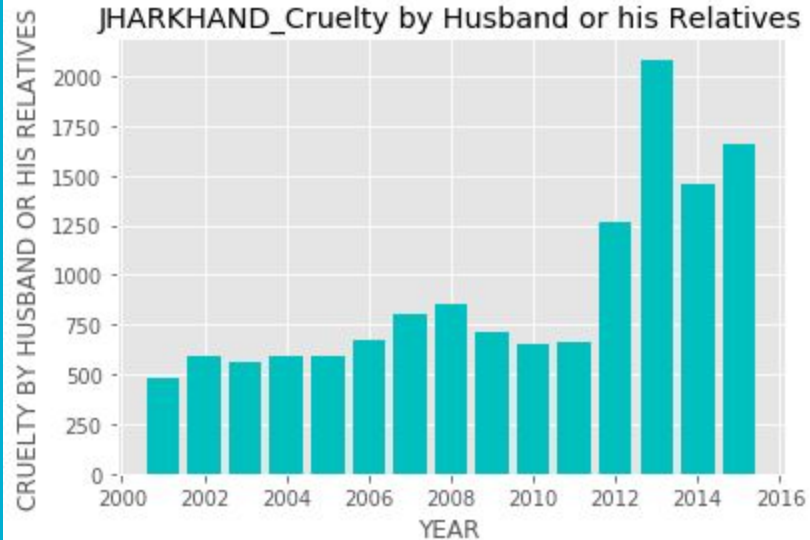


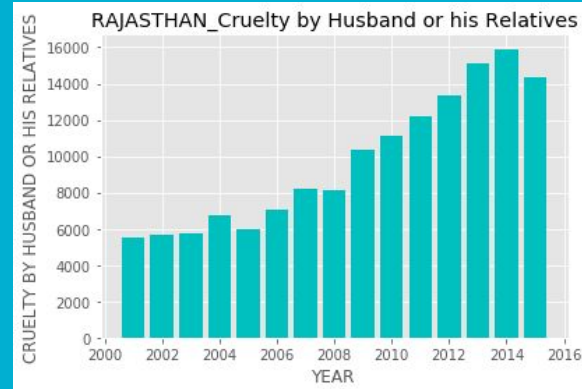
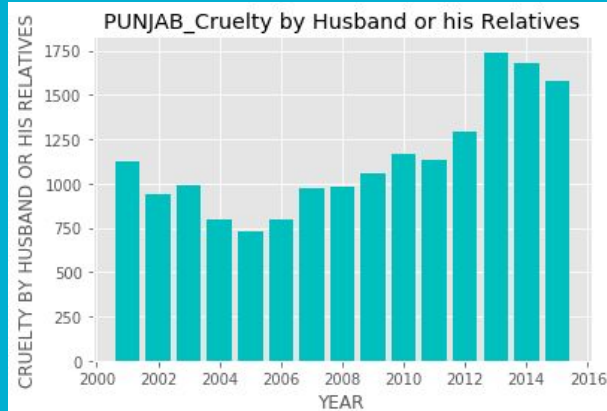
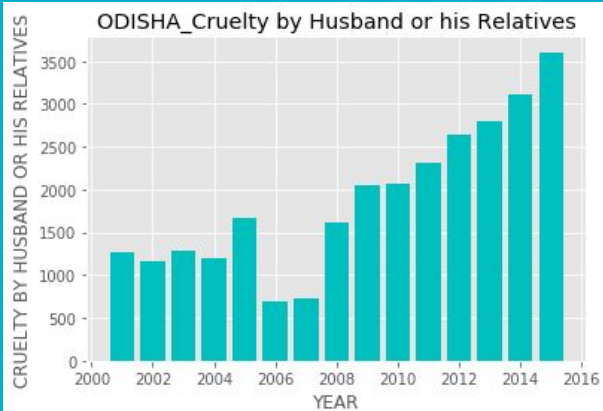
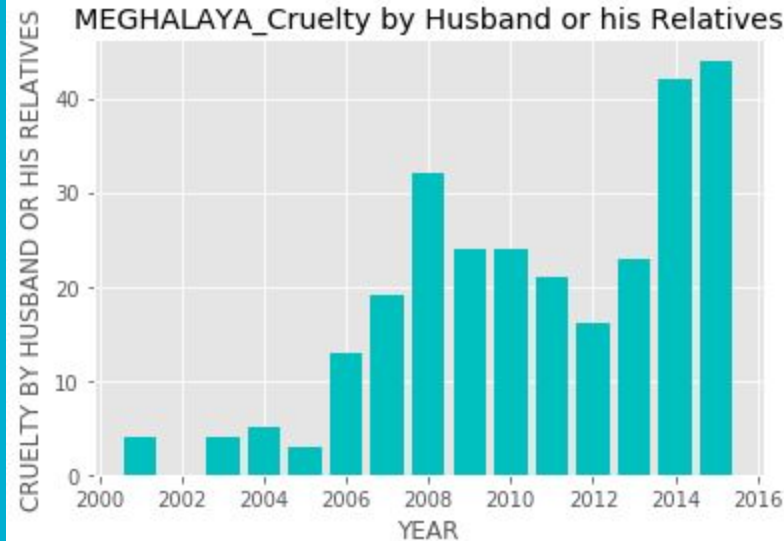
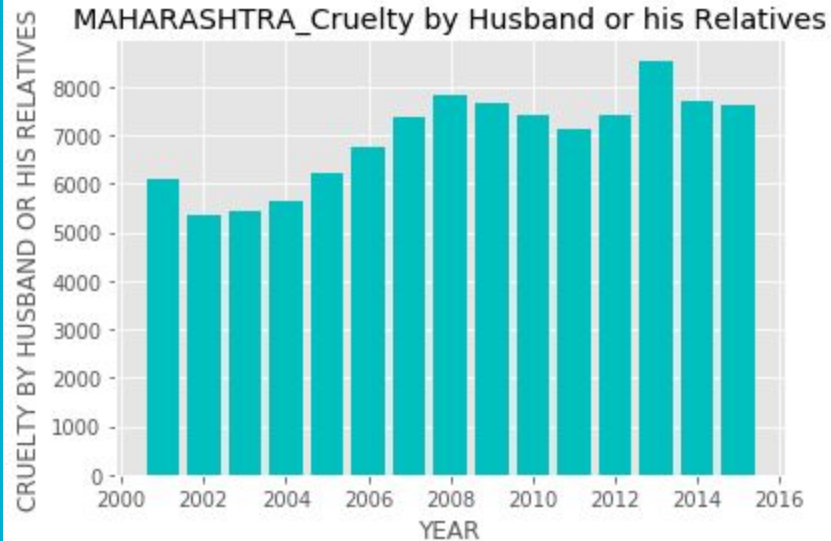
BIHAR_Cruelty by Husband or his Relatives

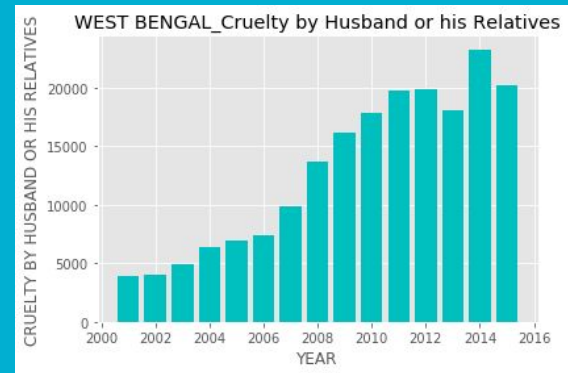
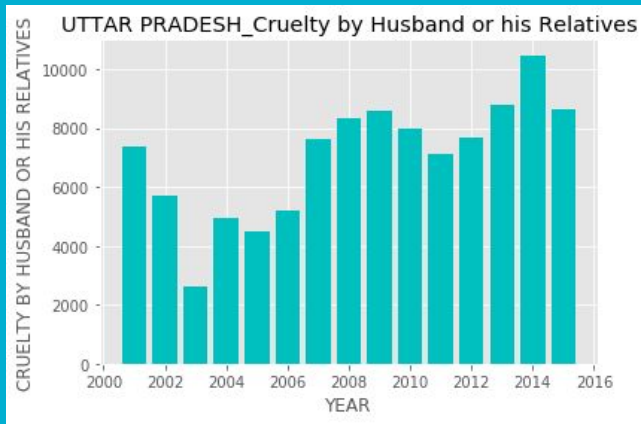
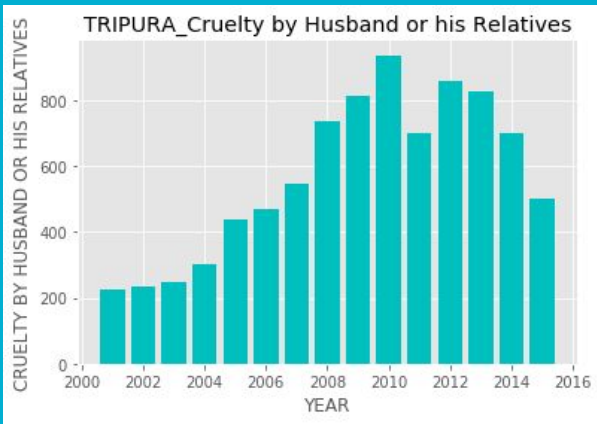
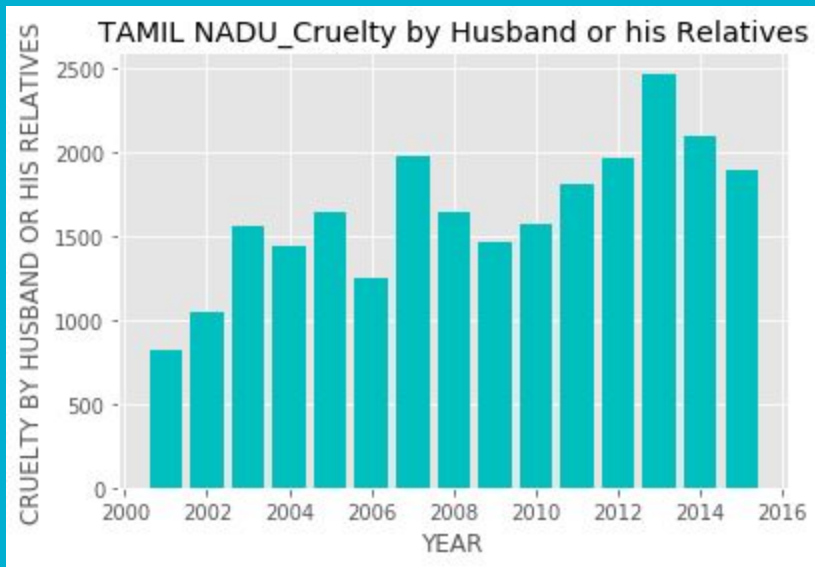
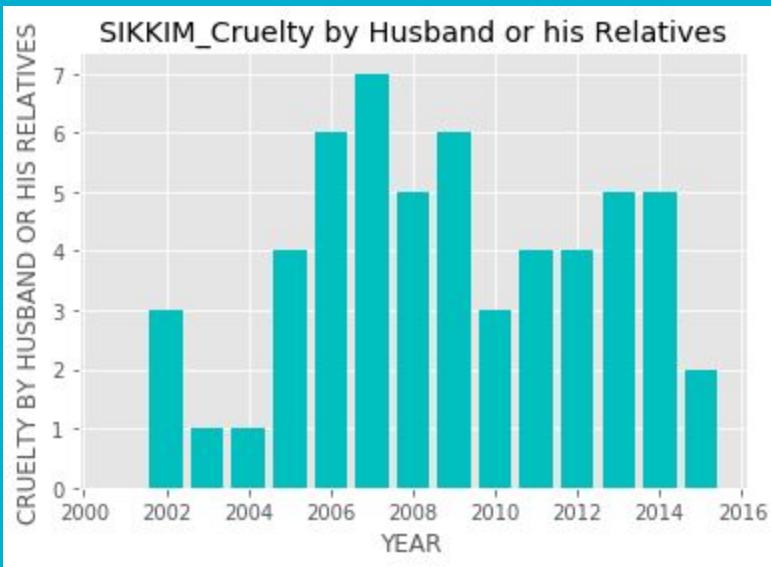












THANK YOU