## from plotly.colors import n\_colors from plotly.subplots import make subplots victims = pd.read\_csv('D:/\_\_studymaterial\_\_/7-sem/Capston Project/Crimes\_India/20\_Victims\_of\_rape.csv') In [2]: In [3]: victims.head() Out[3]: Victims\_Between\_10- Victims\_Between\_14- Victims\_Betwee Area\_Name Year Subgroup Rape\_Cases\_Reported Victims\_Above\_50\_Yrs 14\_Yrs Andaman & Total Nicobar 2001 Rape 3 0 0 Victims Islands

from plotly.offline import download\_plotlyjs, init\_notebook\_mode, plot, iplot

**Cases of Crimes against women** 

In [1]: import numpy as np

In

import pandas as pd

%matplotlib inline

import matplotlib.pyplot as plt

import plotly.graph\_objects as go import plotly.figure\_factory as ff

import plotly.express as px

3 Andaman & Victims of Nicobar 2001 1 0 0 1 Incest Islands Rape

Andaman & Victims of Nicobar 2001 Other 0 0 Islands Rape Andaman & Nicobar 2002 2 0 0 Rape Islands Victims

_	4	1050 0000		1050 000000	1050 000000	1050 000000	1050 000000	1050 000000	
: 		Yea	ar Ra	ape_Cases_Reported	Victims_Above_50_Yrs	Victims_Between_10- 14_Yrs	Victims_Between_14- 18_Yrs	Victims_Between_18- 30_Yrs	Victims
	ctim	s.descı	ribe(	()					
4	1	aman & Nicobar Islands	2002	Victims of Incest Rape	0	0	0	0	
		Islands		Victims					

Out 1050.000000 1050.000000 count 1050.00000 1050.000000 1050.000000 1050.000000 1.866667 mean 2005.50000 361.920000

	1000.0000	1030.00000	1030.000000	1030.000000	1030.000000	1030.000000
mean	2005.50000	361.920000	1.866667	23.657143	53.085714	212.937143
std	2.87365	592.180572	4.640286	50.677418	115.127899	350.135760
min	2001.00000	0.000000	0.000000	0.000000	0.000000	0.000000
25%	2003.00000	4.000000	0.000000	0.000000	0.000000	1.000000
50%	2005.50000	37.000000	0.000000	3.000000	5.000000	15.500000
75%	2008.00000	527.500000	1.000000	19.000000	42.000000	308.000000
max	2010.00000	3135.000000	43.000000	416.000000	826.000000	1835.000000

fig = fig.s		ar(are	awise_c	df,x='	Area_	_Name'	, y='R	ape_Case	s_Rep	orted')			
	60k												
	50k												
Rape_Cases_Reported	40k												
ss_Rep	30k												
Case	20k												
Rape	20k											_	
	108												

Goa

Gujarat

Haryana

Jharkhand

Karnataka Kerala

Delhi

Daman & Diu

Bihar Chandigarh

Assam

Chhattisgarh

Sikkim

Tamil Nadu

Uttarakhand

West Bengal

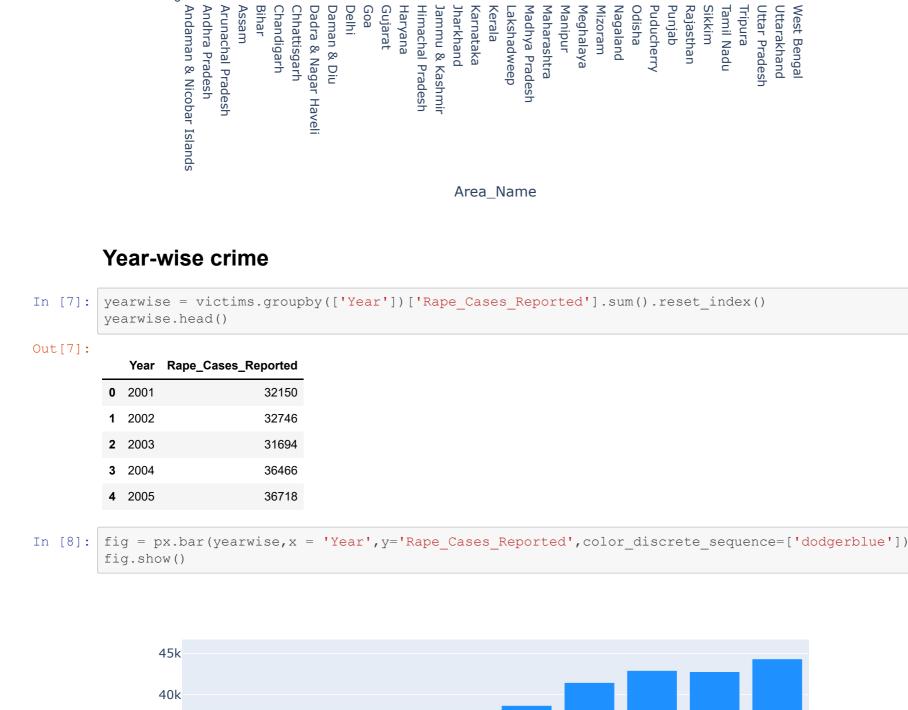
Odisha

Puducherry Punjab Rajasthan

Mizoram Nagaland

Maharashtra

Manipur Meghalaya



## 10k 5k

35k

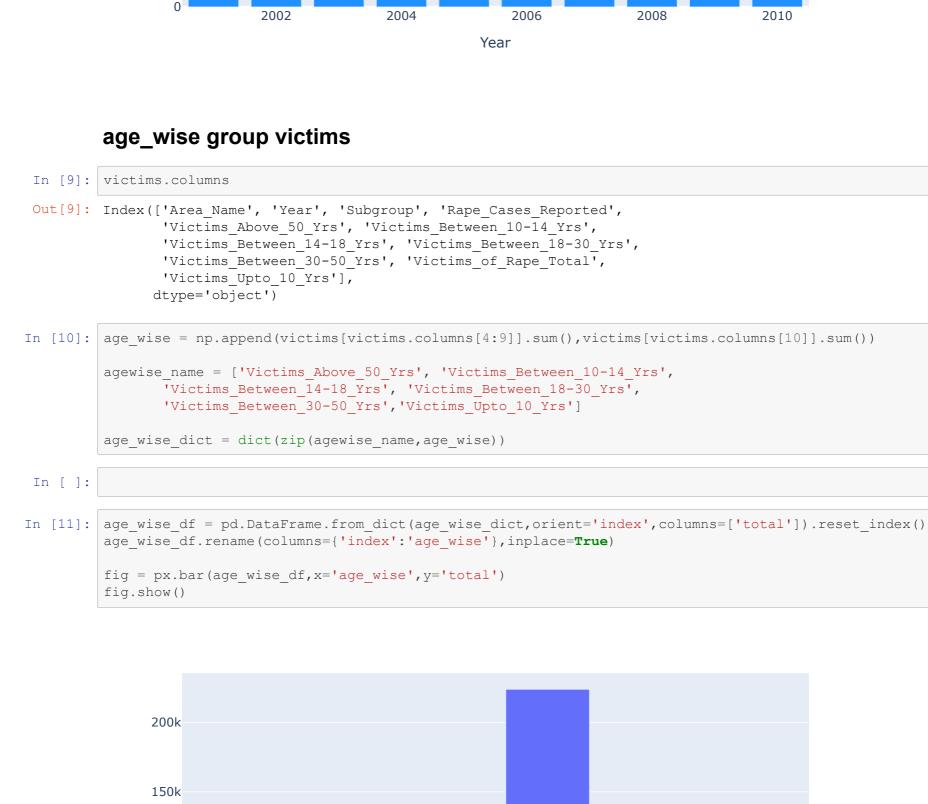
30k

25k

20k

15k

Rape\_Cases\_Reported



100k 50k Victims Between 10-14 Yrs Victims Between 14-18 Yrs Victims Between 18-30 Yrs Victims Between 30-50 Yrs Victims Upto 10 Yrs Victims Above 50 Yrs age\_wise fig = px.pie(age\_wise\_df, values='total', names='age\_wise') In [12]: fig.update layout(title\_text='Age\_wise crime', title\_x=0.5) fig.show()

16.6%

14.7%

6.53%

0.515%

**Human Rights Voilation by Police** 

Group\_Name

of Persons

of Persons

of Persons

of Persons

of Persons

HR\_Disappearance

HR\_Disappearance

HR\_Disappearance

HR\_Disappearance

HR\_Disappearance

iolation by police.csv')

rights\_voilation.head()

Year

2001

2001

2001

Bihar 2001

V'},inplace=True)

Area\_Name

0

3

Andhra

Pradesh

Arunachal

Pradesh

Assam

Chandigarh 2001

500

400

300

200

Cases\_Registered\_HRV

In [17]:

In [18]:

Out[18]:

In [19]:

5

Number of Policemen

150

100

50

2002

In [13]:

Out[13]:

Age\_wise crime

58.8%

rights\_voilation=pd.read\_csv('D:/\_\_studymaterial\_\_/7-sem/Capston Project/Crimes\_India/35\_Human\_rights\_v

rights voilation.rename(columns={'Cases Registered under Human Rights Violations':'Cases Registered HR

Sub\_Group\_Name

01. Disappearance of

Cases\_Registered\_HRV

0.0

0.0

0.0

0.0

0.0

Victims\_Between\_18-30\_Yrs Victims\_Between\_30-50\_Yrs Victims\_Between\_14-18\_Yrs Victims\_Between\_10-14\_Yrs

Victims\_Upto\_10\_Yrs Victims\_Above\_50\_Yrs

Policemen\_Chargesheeted

0.0

0.0

0.0

0.0

0.0

Policemen\_Convicted

0.0

0.0

0.0

0.0

0.0



	100-				Ш			
	0	2002	2004	2006	2008	2010		
				Year				
	_police_conv '].sum().res		hts_voilation.gro	oupby(['Year'])	['Policemen_C	hargesheeted', 'I	Policemen_Convi	
<ipy< td=""><td>thon-input-1</td><td>7-8b621a1c2d</td><td>28&gt;:1: FutureWarr</td><td>ning:</td><td></td><td></td><td></td></ipy<>	thon-input-1	7-8b621a1c2d	28>:1: FutureWarr	ning:				
	Indexing with multiple keys (implicitly converted to a tuple of keys) will be deprecated, use a list instead.							
Тур	es of Hum	nan Right	s violations					
b =		tion['Group_	Name'].value_cour Name'].unique()	nts()				
	index':'Type		_dict(c,orient='i )	index',columns=	['total_Cases	']).reset_index()	.rename(column	
		Types of ca	ses total_Cases					
0	HR_Disa	appearance of Pers	sons 214					
1	HR_II	llegal detention/arr	ests 194					
2	HR_F	ake encounter kill	ings 190					
3 H	HR_Violation agains	st Terrorists/Extrem	nists 190					

190

188

## HR\_False implication 186 7 185 HR\_Failure in taking action 8 HR\_Indignity to Women 185 9 HR\_Atrocities on SC/ST 182 10 HR\_Others Violations by Police 182 11 HR\_Total Violations by Police 181

HR\_Extortion

HR\_Torture

Policemen Chargesheeted vs Policemen Convicted

_	','2005','2006','2007','2008','2009','2010']
fig = go.Figure(data=[	
<u> </u>	hargesheeted', x=year, y= police_charges['Policemen_Chargesheeted'], marke
r_color='purple'),go.Bar	<pre>(name='Policemen_Convicted',x = year,y = police_charges['Policem</pre>
en_Convicted'])	
_	',title='Police Charged & Convicted',title_x=0.5,xaxis_title='Year',yax
is_title='Number of Policemen')	
fig.show()	
<pre><ipython-input-19-681949c01b01>:1</ipython-input-19-681949c01b01></pre>	· FutureWarning.
ripy chon input is outsiseousurs.	. racarenarining.
Indoxing with multiple keys (impl	icitly converted to a tuple of keys) will be deprecated, use a list
instead.	iterity converted to a tuple of keys, will be deprecated, use a fist
Instead.	
	Police Charged & Convicted
	Tonce charges & convicted
	Policemen Chargesheeted
	Policemen_Chargesheeted
250	Policemen_Chargesheeted Policemen_Convicted
250	
250	

200

2006 2008 Year

police\_charges= rights\_voilation.groupby(['Year'])['Policemen\_Chargesheeted','Policemen\_Convicted'].sum