

# Task-3 Data Visualization with Matplotlib

Task3.ipynb

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import pandas as pd  
import numpy as np  
import matplotlib.pyplot as plt  
import seaborn as sns

[3] Python

data = pd.read\_csv('C:\\Users\\kunal\\OneDrive\\Desktop\\Task-3\\householdtask3.csv')

[4] Python

data.head(21)

[5] Python

	year	tot_hhs	own	own_wm	own_prop	own_wm_prop	prop_hhs	age	size	income	expenditure	eqv_income	eqv_exp
0	2008	1560859	1087580	574406	69.7	36.8	100.0	35.9	2.7	46704	42394	26869	25132
1	2008	185965	71256	39405	38.3	21.2	11.9	29.9	2.6	23404	25270	14258	15824
2	2008	312376	191470	48424	61.3	15.5	20.0	40.0	2.3	16747	21145	13402	14408
3	2008	312333	196203	84171	62.8	26.9	20.0	34.7	2.8	31308	29855	18917	18266
4	2008	312240	217657	141318	69.7	45.3	20.0	31.5	3.0	49106	46561	26870	24672
5	2008	312336	229014	147658	73.3	47.3	20.0	35.3	2.6	61674	52776	36691	31958
6	2008	311574	253235	152835	81.3	49.1	20.0	39.3	2.5	96861	72822	55637	42932
7	2008	312761	194358	49448	62.1	15.8	20.0	38.7	2.5	23680	16413	15190	11015
8	2008	311973	206342	86390	66.1	27.7	20.0	36.1	2.7	34155	29085	20357	18121
9	2008	311840	194361	108065	62.3	34.7	20.0	33.0	2.8	49771	42662	27203	25132
10	2008	312257	231612	149007	74.2	47.7	20.0	35.1	2.7	60863	59015	34547	34167
11	2008	312028	260907	181496	83.6	58.2	20.0	36.7	2.5	77434	89053	46269	51550
12	2008	253018	119963	77076	47.4	30.5	16.2	28.9	3.2	42885	35312	23096	19797
13	2008	300243	263054	15406	87.6	5.1	19.2	70.3	1.6	22367	21538	17203	17211
14	2011	1607228	1048164	523698	65.2	32.6	100.0	36.3	2.6	53103	46098	30833	27335

[6] Python

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15	2011	197237	56665	27129	28.7	13.8	12.3	28.0	2.7	25902	27605	16097	16685
16	2011	321848	166355	49952	51.7	15.5	20.0	36.3	2.4	19787	24224	15414	16221
17	2011	321751	187275	77561	58.2	24.1	20.0	35.0	2.9	37370	34200	21998	20586
18	2011	321372	204957	119746	63.8	37.3	20.0	33.4	2.9	54894	49431	30833	28130
19	2011	321507	226916	133454	70.6	41.5	20.0	36.8	2.6	69183	55569	42084	33019
20	2011	320751	262660	142986	81.9	44.6	20.0	40.9	2.4	106227	71815	63106	44712

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```
#Scatter Plot with year against age

plt.scatter(data['own_prop'], data['own_wm_prop'])

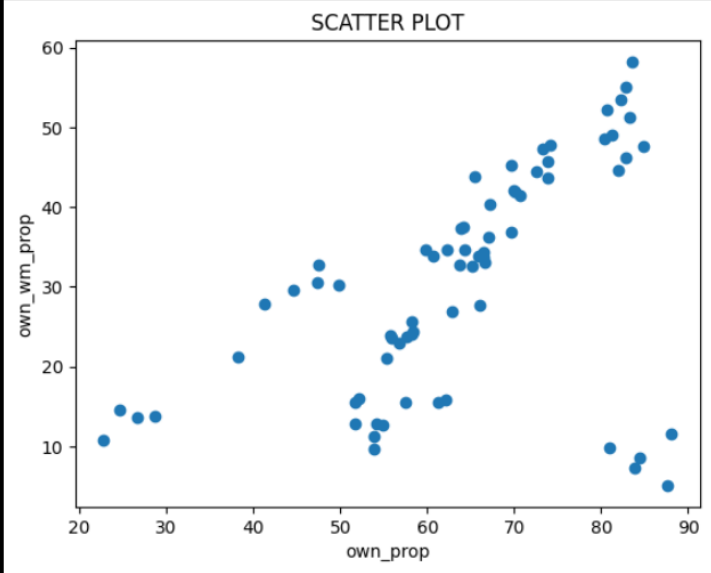
#adding title to the plot
plt.title("SCATTER PLOT")

#Setting the x and y Labels
plt.xlabel('own_prop')
plt.ylabel('own_wm_prop')

#Showing the chart
plt.show()
```

[6] Python

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