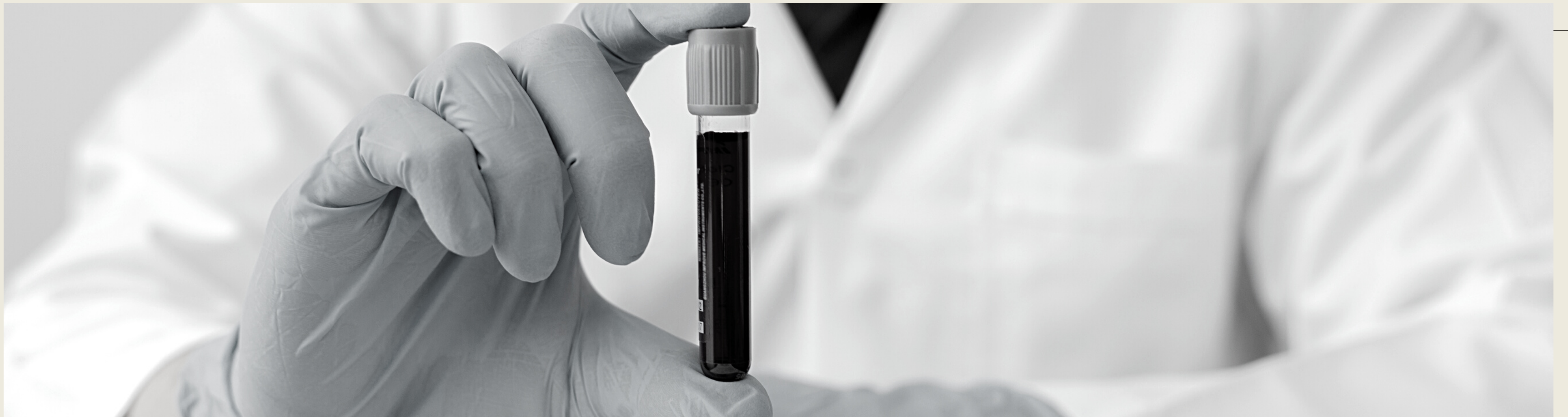

Health insurance



name: Sarah

Investing in The Future of Healthcare



The number of people

A basic outline from start to finish

Name: sex		Name: children		Name: smoker
male 505		0	436	no 804
		1	238	
		2	178	
female 495		3	119	yes 196
		4	16	
		5	13	

	age	sex	bmi	children	smoker	region	charges
0	19	female	27.900	0	yes	southwest	16884.92400
1	18	male	33.770	1	no	southeast	1725.55230
2	28	male	33.000	3	no	southeast	4449.46200
3	33	male	22.705	0	no	northwest	21984.47061
4	32	male	28.880	0	no	northwest	3866.85520
...
995	39	female	23.275	3	no	northeast	7986.47525
996	39	female	34.100	3	no	southwest	7418.52200
997	63	female	36.850	0	no	southeast	13887.96850
998	33	female	36.290	3	no	northeast	6551.75010
999	36	female	26.885	0	no	northwest	5267.81815

1000 rows x 7 columns



	age	sex	bmi	children	smoker	region	charges
995	39	female	23.275	3	no	northeast	7986.47525
996	39	female	34.100	3	no	southwest	7418.52200
997	63	female	36.850	0	no	southeast	13887.96850
998	33	female	36.290	3	no	northeast	6551.75010
999	36	female	26.885	0	no	northwest	5267.81815

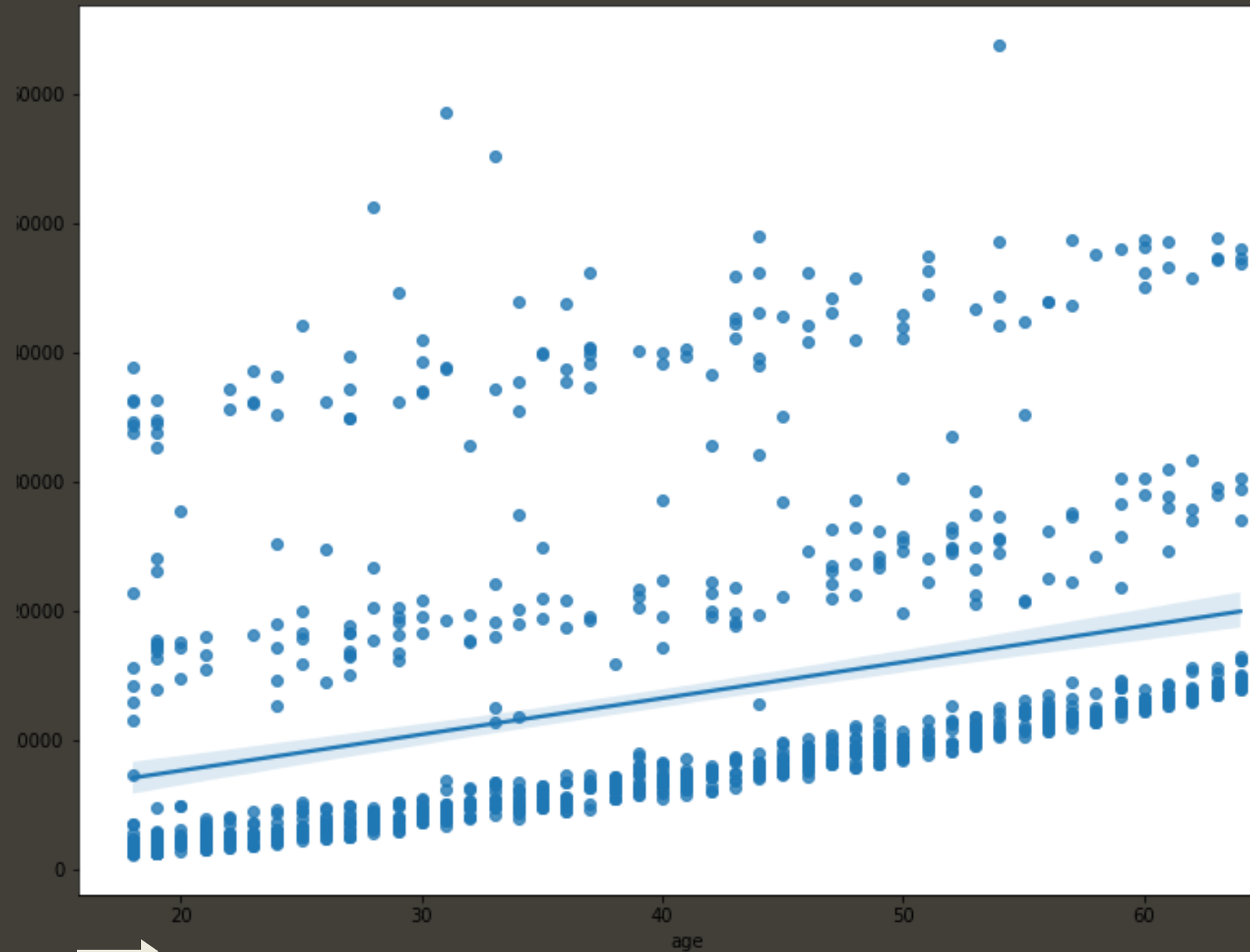
bmi and age relationship

20-35%

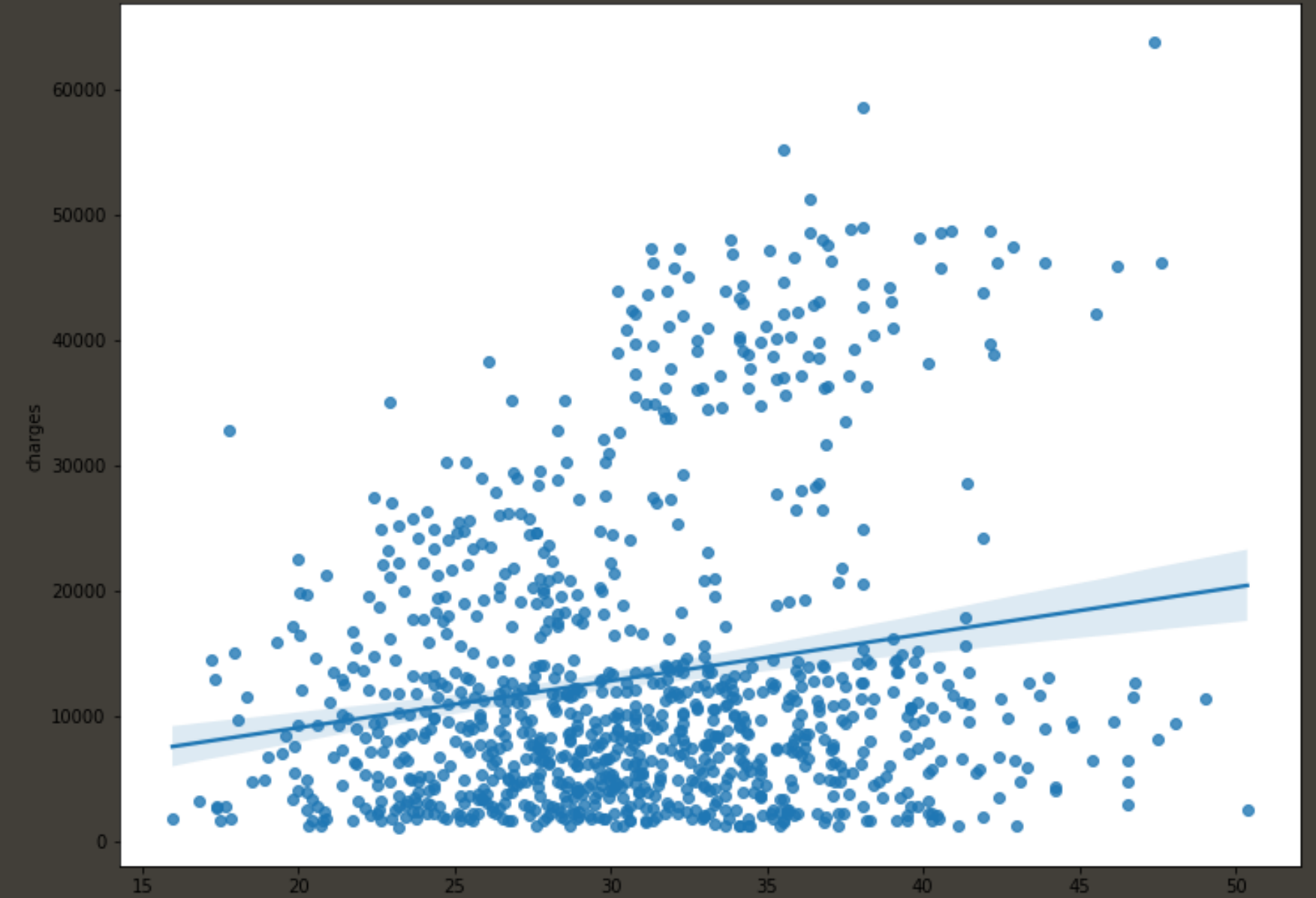
The more bmi, the higher the cost

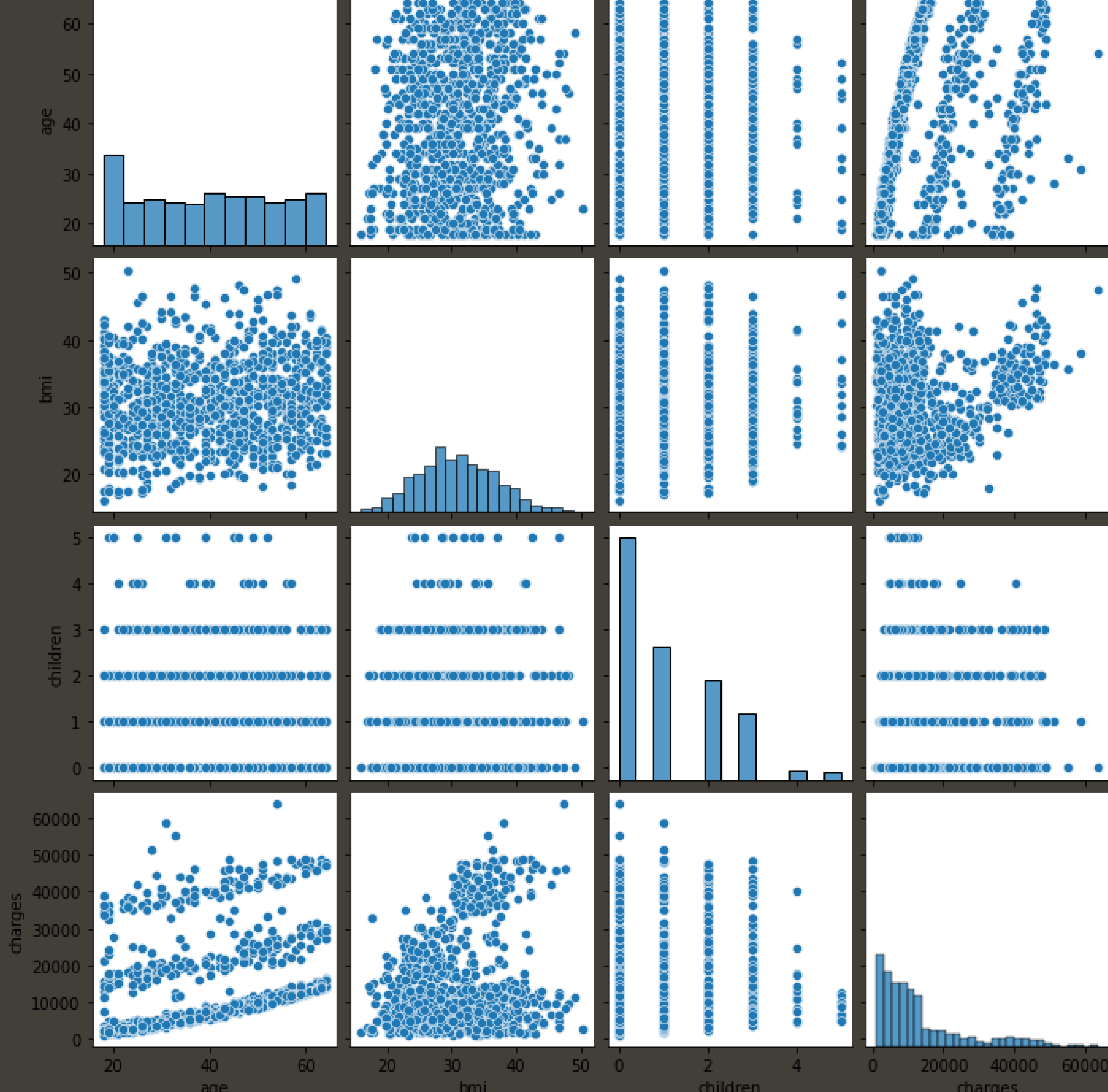
The less bmi, the less the cost

Regression line Between Age and Charges



Regression line Between BMI and Charges





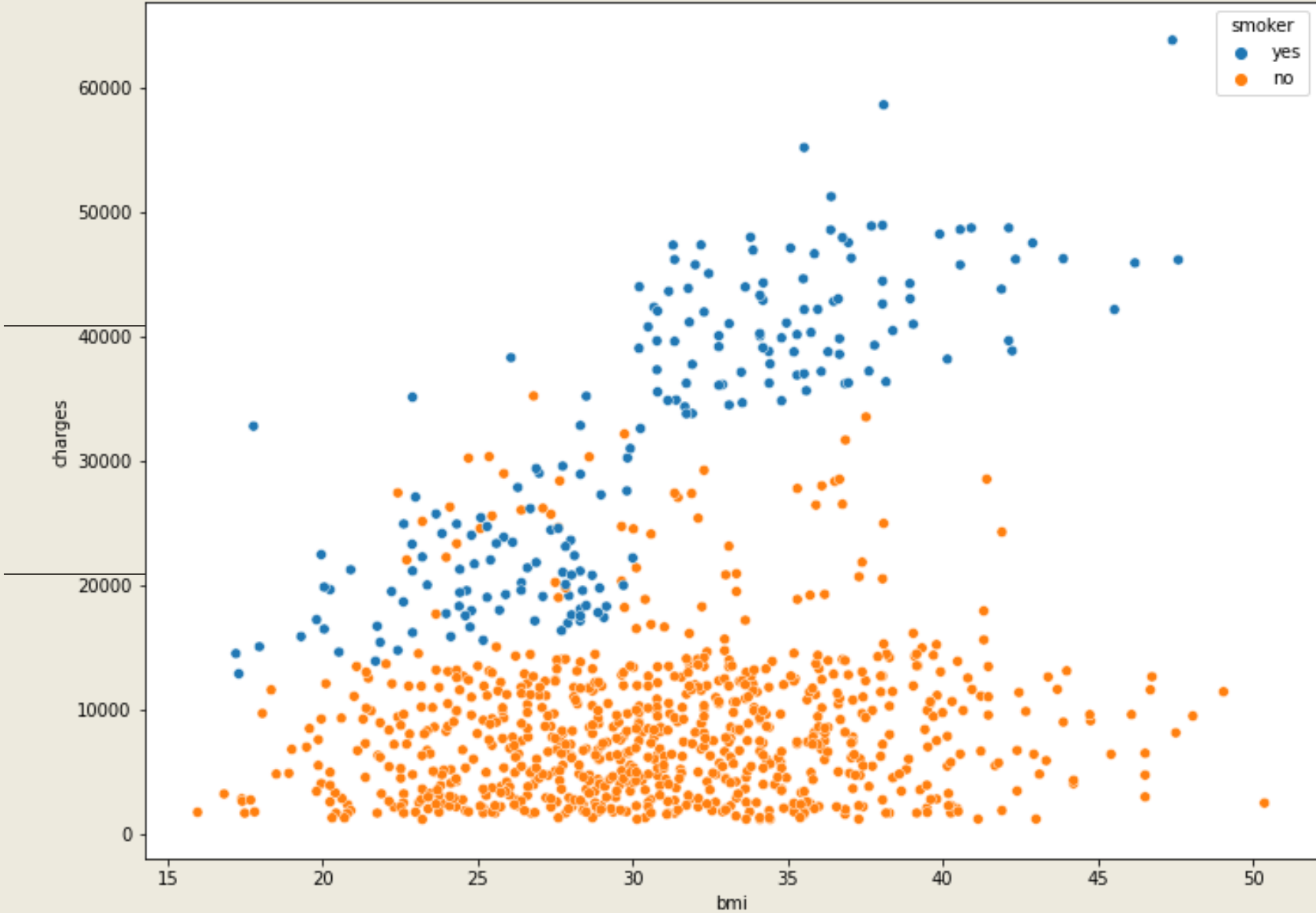
The diagram shows us
as follows:

This graph shows the cost of the number of smokers and non-smokers

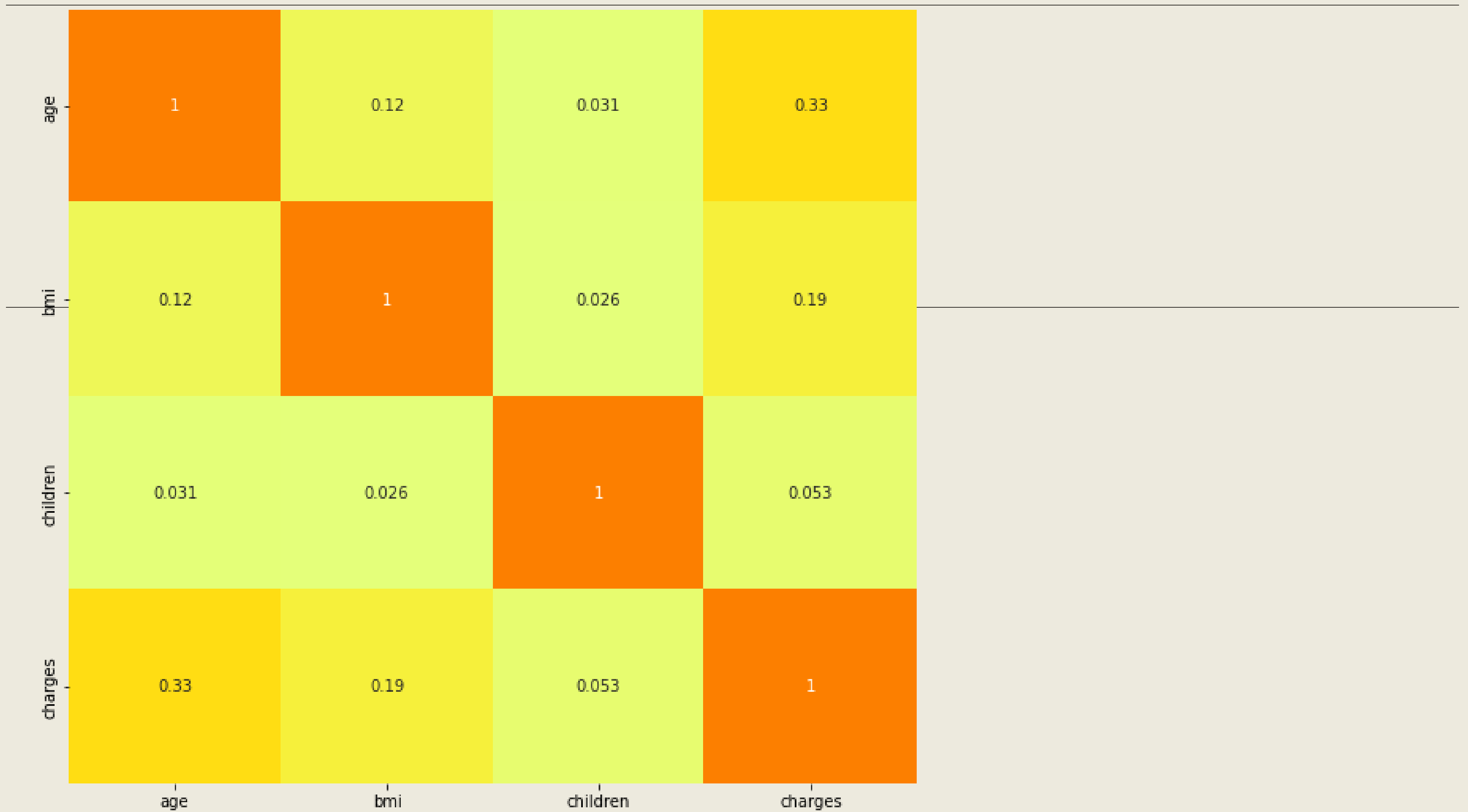
Relation Between BMI and Charges



Relation Between BMI and Charges with Smoker

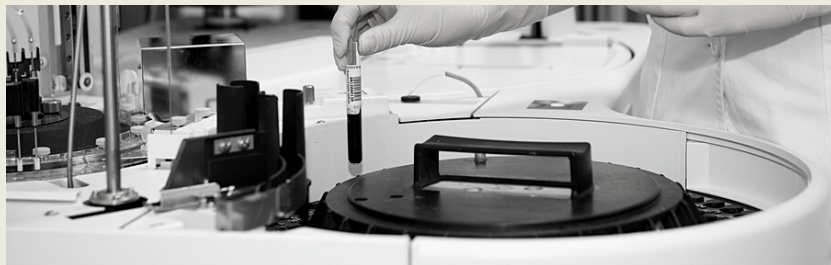


heatmap



Real ValuesPredicted Values

	Real Values	Predicted Values
0	11743.93410	14089.806704
1	3972.92470	5116.518688
2	9386.16130	12700.975804
3	6067.12675	7600.787094
4	20745.98910	29566.588087
...
195	16138.76205	26717.938106
196	4992.37640	4831.254930
197	13430.26500	14603.695293
198	1824.28540	3707.601260
199	8457.81800	11704.471582



Specialization of the company:
Health insurance

Prediction

Prediction Real ValuesPredicted Values

*Thank
you!*