

Statistical Methods Project presentation

Presented by Group 14

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DATA PREPARATION

	Person ID	Gender	Age	Occupation	Sleep Duration	\
0	1	Male	27	Software Engineer	6.1	
1	2	Male	28	Doctor	6.2	
2	3	Male	28	Doctor	6.2	
3	4	Male	28	Sales Representative	5.9	
4	5	Male	28	Sales Representative	5.9	
..	
369	370	Female	59	Nurse	8.1	
370	371	Female	59	Nurse	8.0	
371	372	Female	59	Nurse	8.1	
372	373	Female	59	Nurse	8.1	
373	374	Female	59	Nurse	8.1	
	Quality of Sleep	Physical Activity Level	Stress Level	BMI Category		\
0	6	42	6	Overweight		
1	6	60	8	Normal		
2	6	60	8	Normal		
3	4	30	8	Obese		
4	4	30	8	obese		
..		
369	9	75	3	Overweight		
370	9	75	3	Overweight		
371	9	75	3	Overweight		
372	9	75	3	Overweight		
373	9	75	3	Overweight		
	Blood Pressure	Heart Rate	Daily Steps	Sleep Disorder		\
0	126/83	77	4200	None		
1	125/80	75	10000	None		
2	125/80	75	10000	None		
3	140/90	85	3000	Sleep Apnea		
4	140/90	85	3000	Sleep Apnea		
..		
369	140/95	68	7000	Sleep Apnea		
370	140/95	68	7000	Sleep Apnea		
371	140/95	68	7000	Sleep Apnea		
372	140/95	68	7000	Sleep Apnea		
373	140/95	68	7000	Sleep Apnea		
 [374 rows x 13 columns]						

Raw data:

13 variables

374 observations



Sleep Health and Lifestyle Dataset

Unlock sleep insights with the Sleep Health Dataset

kaggle.com

	Gender	QualityofSleep	StressLevel
0	Male	6	6
1	Male	6	8
2	Male	6	8
3	Male	4	8
4	Male	4	8
...
145	Female	7	5
146	Male	8	5
147	Male	5	7
148	Female	7	6
149	Female	9	3

150 rows × 3 columns

**Model Data:
3 variables**

150 observations

0 null/missing values

```
Null value counts:
```

```
StressLevel      0
```

```
QualityofSleep   0
```

```
Gender          0
```

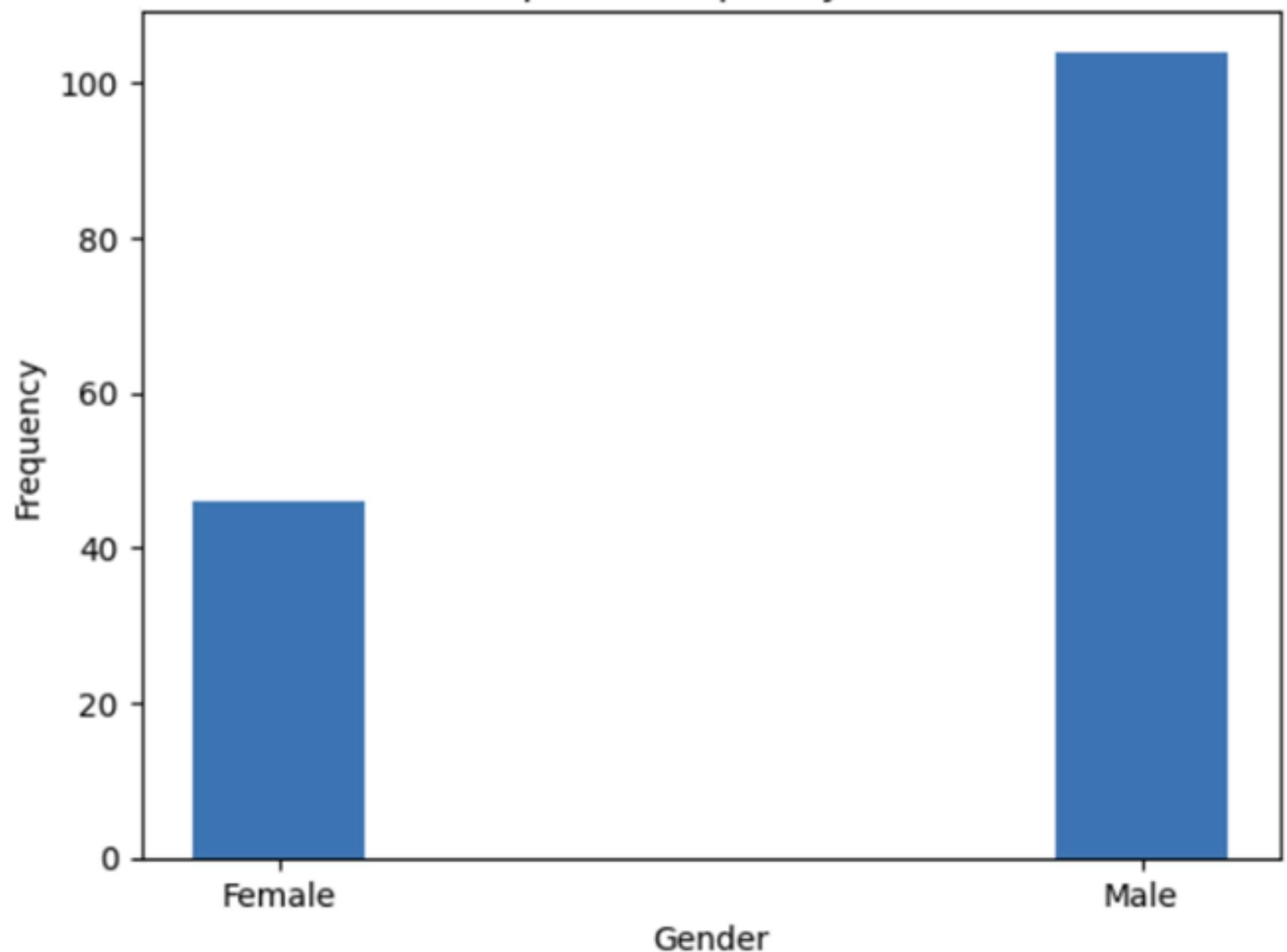
```
dtype: int64
```

```
Total null values in DataFrame: 0
```

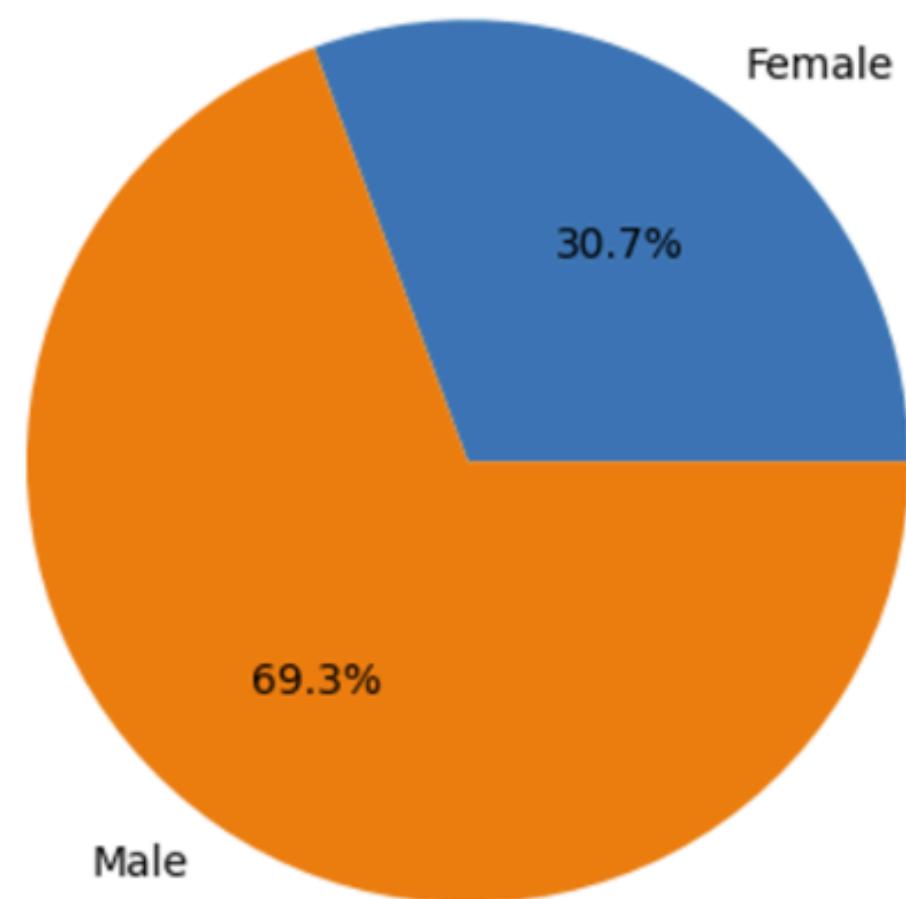
Gender

	Gender	Frequency	Relative Frequency	Cumulative Frequency	Cumulative Relative Frequency
0	Female	46	0.306667	46	0.306667
1	Male	104	0.693333	150	1.000000

Bar Graph for Frequency of Gender



Proportion of Gender

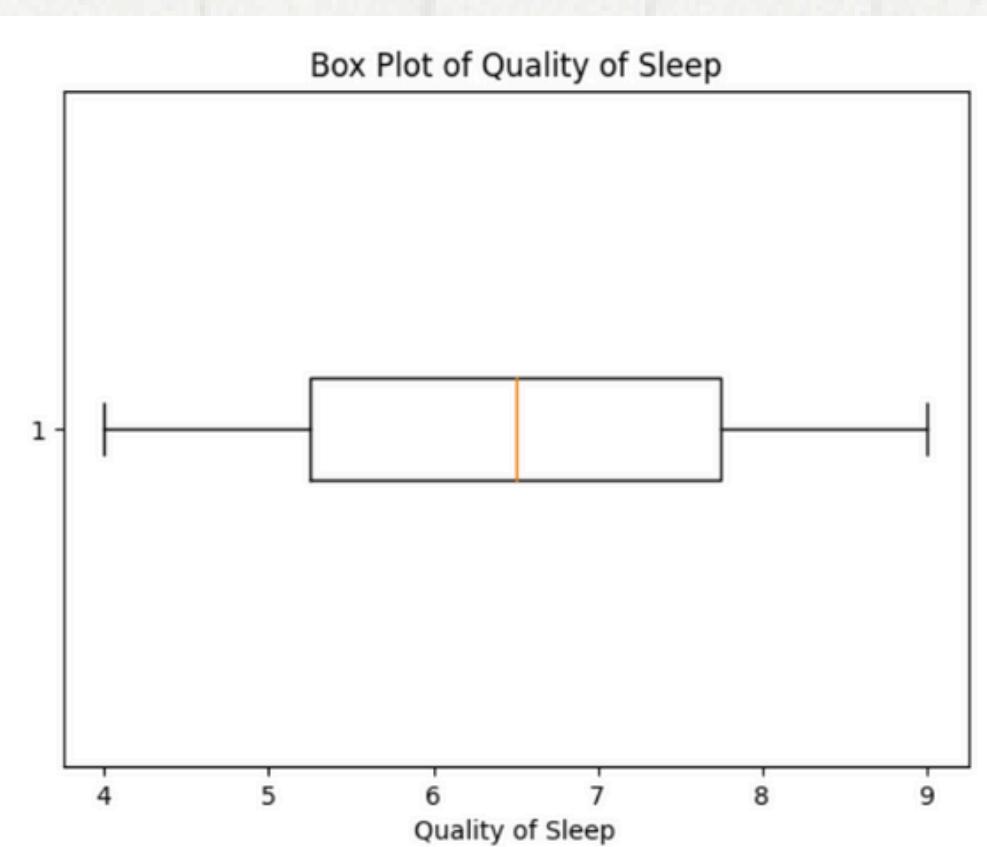
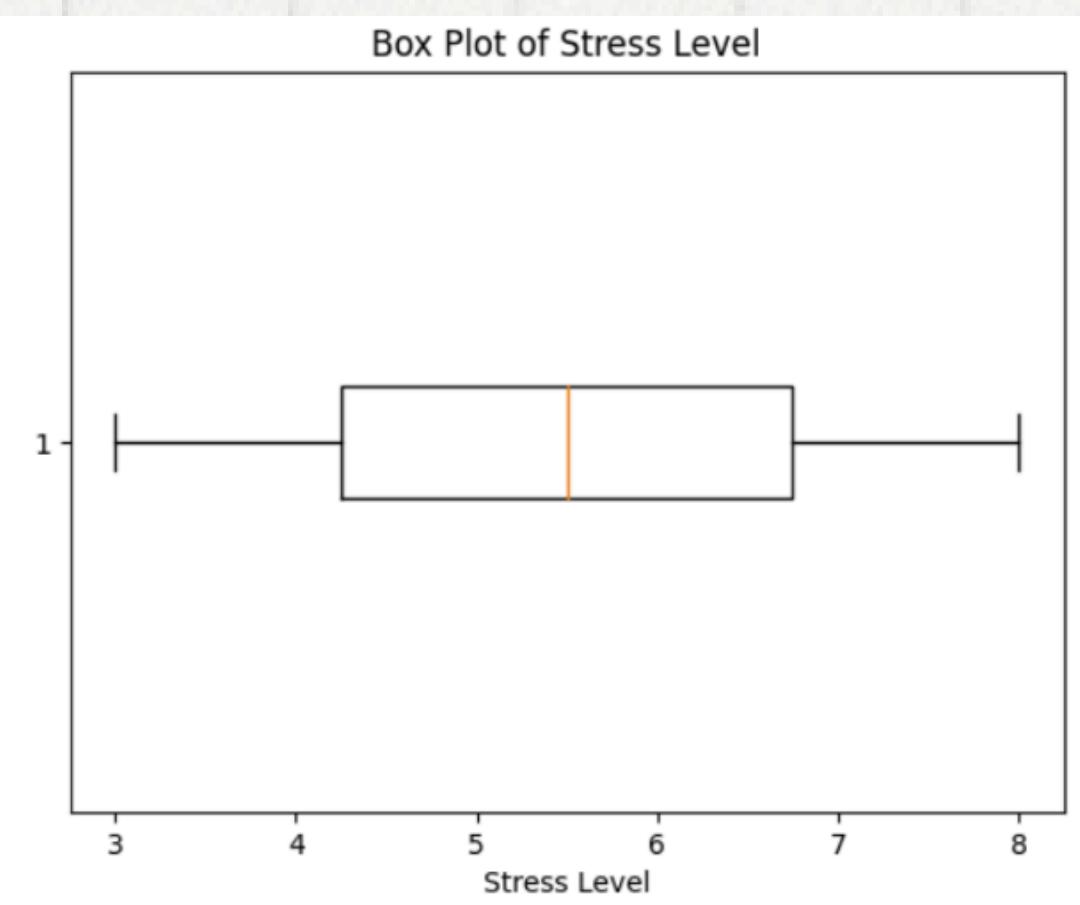
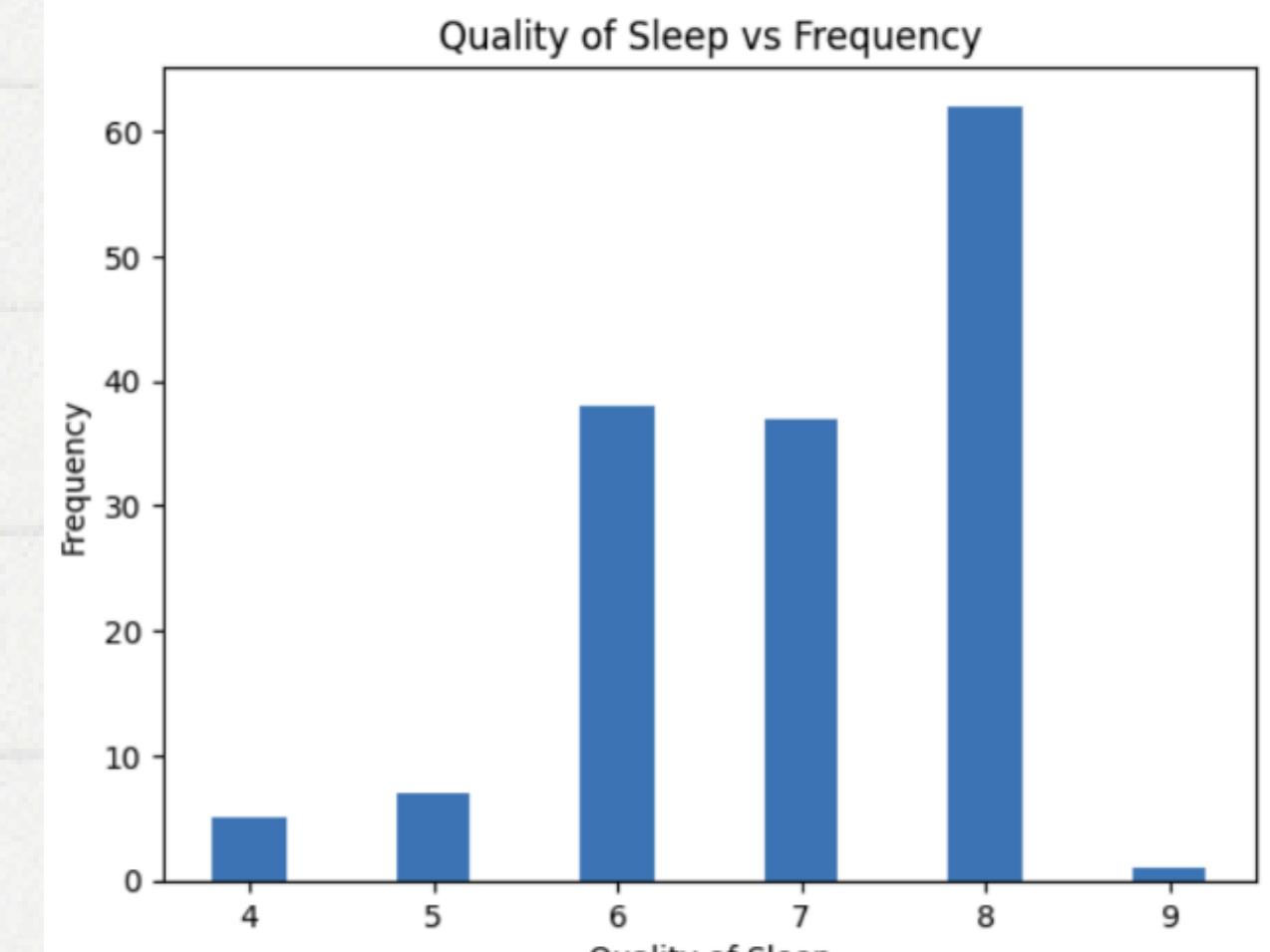
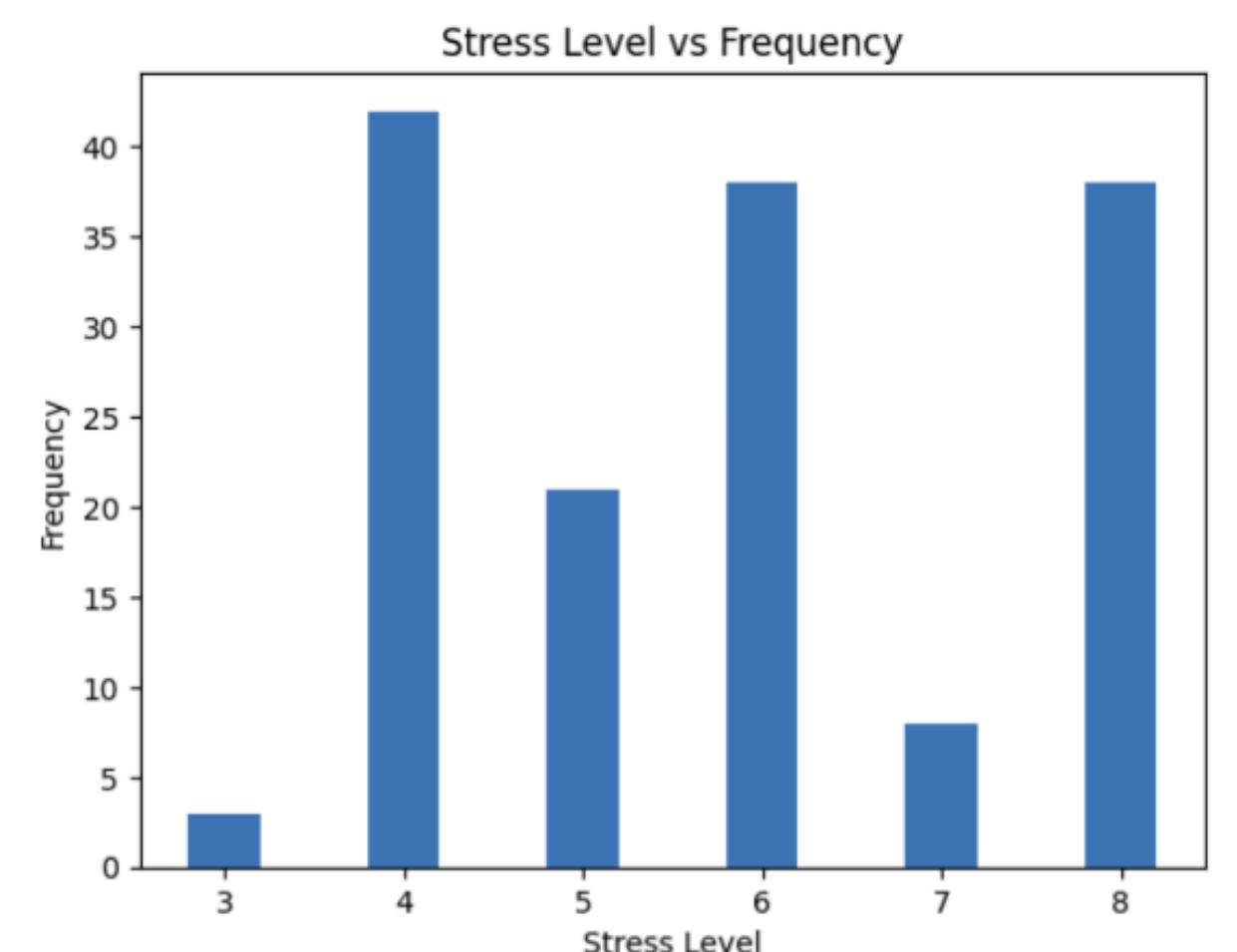


Stress Level

Stress_Level	Frequency	Relative Frequency	Cumulative Frequency	Cumulative Relative Frequency
0	3	0.020000	3	0.020000
1	42	0.280000	45	0.300000
2	5	0.140000	66	0.440000
3	6	0.253333	104	0.693333
4	7	0.053333	112	0.746667
5	8	0.253333	150	1.000000

Quality of Sleep

Quality_of_Sleep	Frequency	Relative Frequency	Cumulative Frequency	Cumulative Relative Frequency
0	4	5	5	0.033333
1	5	7	12	0.080000
2	6	38	50	0.333333
3	7	37	87	0.580000
4	8	62	149	0.993333
5	9	1	150	1.000000



**Thank you
very much!**