

```
1 from google.colab import files
2 uploaded = files.upload()
3
4 import pandas as pd
5 import seaborn as sns
6 import matplotlib.pyplot as plt
7 df = pd.read_csv("student_habits_performance.csv")
8 df.head()
9 print(df)
10
11 sns.set(style="whitegrid")
12
13 # Crear múltiples subplots
14 fig, axs = plt.subplots(5, 2, figsize=(18, 24))
15 axs = axs.flatten()
16
17 # 1. Distribución del puntaje
18 sns.histplot(df['exam_score'], kde=True, ax=axs[0], color="skyblue")
19 axs[0].set_title("Distribución del Puntaje en el Examen")
20
21 # 2. Horas de estudio vs puntaje
22 sns.scatterplot(data=df, x='study_hours_per_day', y='exam_score', ax=axs[1])
23 axs[1].set_title("Horas de Estudio vs Puntaje en el Examen")
24
25 # 3. Salud mental vs puntaje
26 sns.boxplot(data=df, x='mental_health_rating', y='exam_score', ax=axs[2])
27 axs[2].set_title("Salud Mental vs Puntaje en el Examen")
28
29 # 4. Educación de los padres
30 sns.boxplot(data=df, x='parental_education_level', y='exam_score', ax=axs[3])
31 axs[3].set_title("Nivel Educativo de los Padres vs Puntaje")
32
33 # 5. Calidad del internet
34 sns.boxplot(data=df, x='internet_quality', y='exam_score', ax=axs[4])
35 axs[4].set_title("Calidad del Internet vs Puntaje")
36
37 # 6. Dieta y puntaje
38 sns.boxplot(data=df, x='diet_quality', y='exam_score', ax=axs[5])
39 axs[5].set_title("Calidad de la Dieta vs Puntaje")
40
41 # 7. Participación extracurricular
42 sns.boxplot(data=df, x='extracurricular_participation', y='exam_score', ax=axs[6])
43 axs[6].set_title("Actividades Extracurriculares vs Puntaje")
44
45 # 8. Redes sociales vs puntaje
46 sns.scatterplot(data=df, x='social_media_hours', y='exam_score', ax=axs[7])
47 axs[7].set_title("Horas en Redes Sociales vs Puntaje")
48
49 # 9. Trabajo medio tiempo
50 sns.boxplot(data=df, x='part_time_job', y='exam_score', ax=axs[8])
51 axs[8].set_title("Trabajo de Medio Tiempo vs Puntaje")
52
53 # 10. Sueño vs puntaje
54 sns.regplot(data=df, x='sleep_hours', y='exam_score', ax=axs[9], scatter_kws={'alpha':0.5})
55 axs[9].set_title("Horas de Sueño vs Puntaje")
56
57 plt.tight_layout()
58 plt.show()
```

Elegir archivos student\_hab...rmance.csv

- student\_habits\_performance.csv(text/csv) - 73663 bytes, last modified: 6/5/2025 - 100% done

Saving student\_habits\_performance.csv to student\_habits\_performance (1).csv

	student_id	age	gender	study_hours_per_day	social_media_hours	\
0	S1000	23	Female	0.0	1.2	
1	S1001	20	Female	6.9	2.8	
2	S1002	21	Male	1.4	3.1	
3	S1003	23	Female	1.0	3.9	
4	S1004	19	Female	5.0	4.4	
..	...	...	...	...	...	
995	S1995	21	Female	2.6	0.5	
996	S1996	17	Female	2.9	1.0	
997	S1997	20	Male	3.0	2.6	
998	S1998	24	Male	5.4	4.1	
999	S1999	19	Female	4.3	2.9	

  

	netflix_hours	part_time_job	attendance_percentage	sleep_hours	\
0	1.1	No	85.0	8.0	
1	2.3	No	97.3	4.6	
2	1.3	No	94.8	8.0	
3	1.0	No	71.0	9.2	
4	0.5	No	90.9	4.9	
..	...	...	...	...	
995	1.6	No	77.0	7.5	
996	2.4	Yes	86.0	6.8	
997	1.3	No	61.9	6.5	
998	1.1	Yes	100.0	7.6	
999	1.9	No	89.4	7.1	

  

	diet_quality	exercise_frequency	parental_education_level	\
0	Fair	6	Master	
1	Good	6	High School	
2	Poor	1	High School	
3	Poor	4	Master	
4	Fair	3	Master	
..	...	...	...	
995	Fair	2	High School	
996	Poor	1	High School	
997	Good	5	Bachelor	
998	Fair	0	Bachelor	
999	Good	2	Bachelor	

  

	internet_quality	mental_health_rating	extracurricular_participation	\
0	Average	8	Yes	
1	Average	8	No	
2	Poor	1	No	
3	Good	1	Yes	
4	Good	1	No	
..	...	...	...	
995	Good	6	Yes	
996	Average	6	Yes	
997	Good	9	Yes	
998	Average	1	No	
999	Average	8	No	

  

	exam_score
0	56.2
1	100.0
2	34.3
3	26.8
4	66.4
..	...
995	76.1
996	65.9
997	64.4
998	69.7
999	74.9

[1000 rows x 16 columns]



