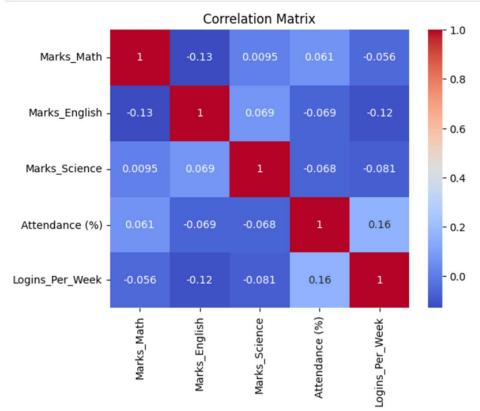
# **OUTPUT SCREENSHOTS**

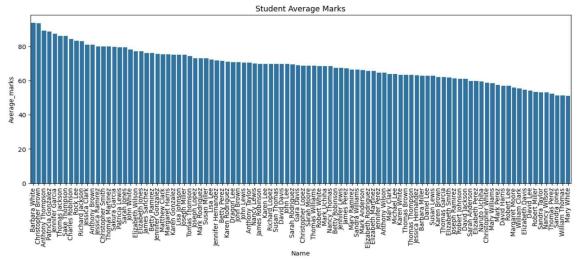
#### **Correlation Matrix**

```
corr = df[['Marks_Math', 'Marks_English', 'Marks_Science', 'Attendance (%)', 'Logins_Per_Week']].corr()
sns.heatmap(corr, annot=True, cmap='coolwarm')
plt.title('Correlation Matrix')
plt.show()
```



### Student Average Marks

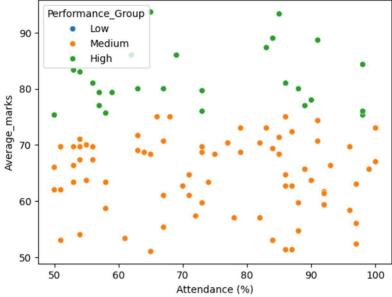
```
df_sorted = df.sort_values(by='Average_marks', ascending=False)
plt.figure(figsize=(15,5))
sns.barplot(data=df_sorted, x='Name', y='Average_marks')
plt.title('Student Average Marks')
plt.xticks(rotation=90)
plt.show()
```



### Attendance VS Average Mark

```
df['Performance_Group'] = pd.cut(df['Average_marks'], bins=[0, 50, 75, 100], labels=['Low', 'Medium', 'High'])
sns.scatterplot(data=df, x='Attendance (%)', y='Average_marks', hue='Performance_Group')
plt.title('Attendance vs Average Marks')
plt.show()
```





# Top Students and Struggling Students

Top Students:				
	Nam	e Total_marks	Attendance	(%)
67	Barbara White	281		65
65	Christopher Brown	280		85
2	Anthony Thompson	267		84
19	Patricia Gonzalez	266		91
40	Jennifer Garcia	262		83
Struggling Students:				
		Total_marks A		)
51	Nancy Wilson	159	51	
1	Thomas Perez	157	97	
24	Sandra Jones	154	86	
73	William Thomas	154	87	
26	Mary White	153	65	

# Student Performance Anlaytics Dashboard

