The Sopranos: Viewership Analysis

Table of contents

season = "Season 2"

# Injected Parameters  
season = "Season 4"

import os  
import pandas as pd  
import matplotlib.pyplot as plt  
import seaborn as sns  
from IPython.display import Markdown, display  
  
df = pd.read\_csv("sopranos\_season\_data.csv")  
  
row = df[df["Season"] == season].iloc[0]  
  
avg\_views = row["Average\_Views"]  
highlight = row["Highlight"]  
description = row["Description"]

## 1 Season overview:

display(Markdown(f"""  
### {season}  
  
\*\*Average Viewership:\*\* {avg\_views} million   
\*\*Highlight:\*\* {highlight}   
  
> {description}  
"""))

### 1.1 Season 4

**Average Viewership:** 10.95 million  
**Highlight:** Carmela and Furio’s chemistry deepens.

Tony’s power peaks and family strain intensifies.



Show logo

## 2 Viewership chart

plt.figure(figsize=(10, 6))  
sns.barplot(data=df, x="Season", y="Average\_Views", palette="magma")  
  
# Highlight the current season  
highlight\_idx = df.index[df["Season"] == season].tolist()[0]  
bar = plt.gca().patches[highlight\_idx]  
bar.set\_edgecolor("black")  
bar.set\_linewidth(2)  
  
plt.title("Average Viewership by Season")  
plt.ylabel("Average Viewers (millions)")  
plt.xlabel("Season")  
plt.xticks(rotation=45)  
plt.grid(axis="y", linestyle="--", alpha=0.5)  
plt.tight\_layout()  
plt.show()

C:\Users\msliz\AppData\Local\Temp\ipykernel\_6088\2182017188.py:2: FutureWarning:  
  
  
  
Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `legend=False` for the same effect.

