google-trend-analysis

July 11, 2025

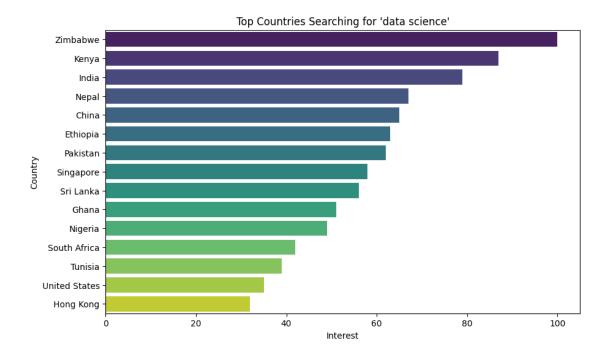
0.0.1 Setup Pytrend library and Keyword define

```
[156]: pytrends = TrendReq(hl="en-US", tz=360) # hl=language, tz=timezone keyword = "data science"
```

0.1 Question:1 Data Request

```
[157]: pytrends.build_payload([keyword], cat=0, timeframe="today 12-m", geo="", gprop="") # cat=category, geo=geography, \( \triangle \) \( \triangle \) gprops=only google search result
```

0.2 Question:2 Country wise Interest



0.3 Question: 3 Creating World Map

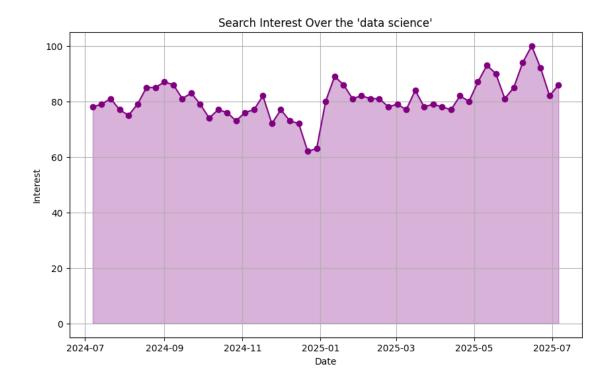
0.4 Question:4 Time wise Interest

```
[162]: time_df = pytrends.interest_over_time()

[163]: plt.figure(figsize=(10,6))

    plt.plot(time_df.index, time_df[keyword], marker="o", color="purple")
    plt.fill_between(time_df.index, time_df[keyword], color="purple", alpha=0.3)

    plt.title(f"Search Interest Over the '{keyword}'")
    plt.xlabel("Date")
    plt.ylabel("Interest")
    plt.grid()
    plt.show()
```



0.5 Question:5 Multiple Keyword Compare

