Pandas-AI-with-Ollama

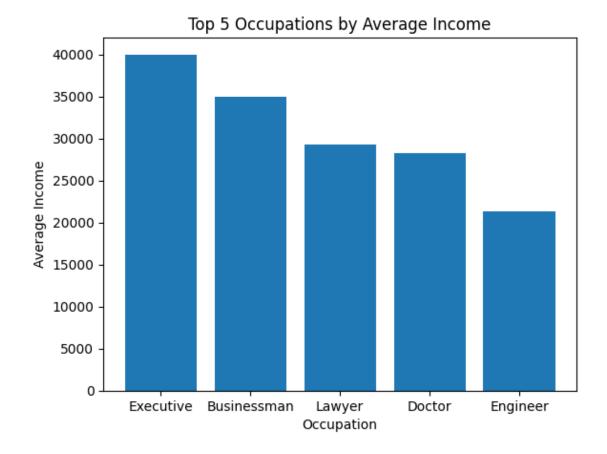
April 29, 2024

```
[]: import pandas as pd
     data = pd.read_csv("data.csv")
     data.head()
[]:
                         Age Gender
                   Name
                                            City
                                                  Occupation
                                                              Income
     0
               Wang Lei
                          32
                                Male
                                                     Teacher
                                                               10000
                                        Beijing
                          23 Female
                                       Shanghai
                                                      Doctor
                                                               20000
     1
             Li Wei Jia
     2 Zheng Xiao Gang
                          45
                                Male
                                      Guangzhou
                                                   Policeman
                                                               10000
                                       Shenzhen
     3 Huang Xiao Ning
                          28
                                Male
                                                  Programmer
                                                               15000
     4
               He Li Na
                          35 Female
                                         Chengdu
                                                      Lawyer
                                                               25000
[]: from langchain_community.llms import Ollama
     11m = Ollama(model="llama3")
[]: from pandasai import SmartDataframe
     df = SmartDataframe(data, config={"llm": llm})
[]: df.chat("What are the top 5 cities for average income?")
[]:
             City
                    Income
          Qingdao
                  40000.0
                  37500.0
     9
         Shenyang
     13
            Xi'an
                  32500.0
     5
          Kunming
                  31500.0
     1
          Chengdu 26600.0
[]: df.chat(
         "Calculate the average income for each occupation and then rank the top 5_{\sqcup}
      ⇔occupations from highest to lowest"
```

python(6411) MallocStackLogging: can't turn off malloc stack logging because it

was not enabled.

[]: '/Users/chi/Desktop/quartz/content/study/exports/charts/temp_chart.png'

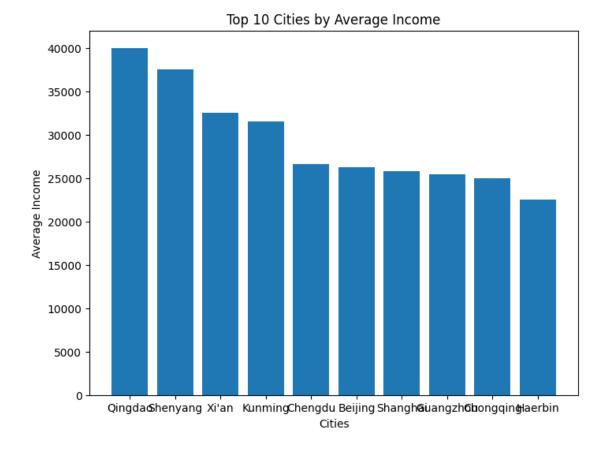


[]: df.chat("First, sort the cities by average income from high to low, then create a ⇔bar chart displaying the top 10 cities by average income")

python(6423) MallocStackLogging: can't turn off malloc stack logging because it was not enabled.

python(6424) MallocStackLogging: can't turn off malloc stack logging because it was not enabled.

[]: '/Users/chi/Desktop/quartz/content/study/exports/charts/temp_chart.png'



[]: df.chat(
 "First, calculate the number of people in each occupation, and then create
 ⇔a pie chart for the top 5 occupations by count"
)

python(7589) MallocStackLogging: can't turn off malloc stack logging because it was not enabled.

python(7601) MallocStackLogging: can't turn off malloc stack logging because it was not enabled.

[]: '/Users/chi/Desktop/quartz/content/study/exports/charts/temp_chart.png'

Top 5 Occupations by Count

