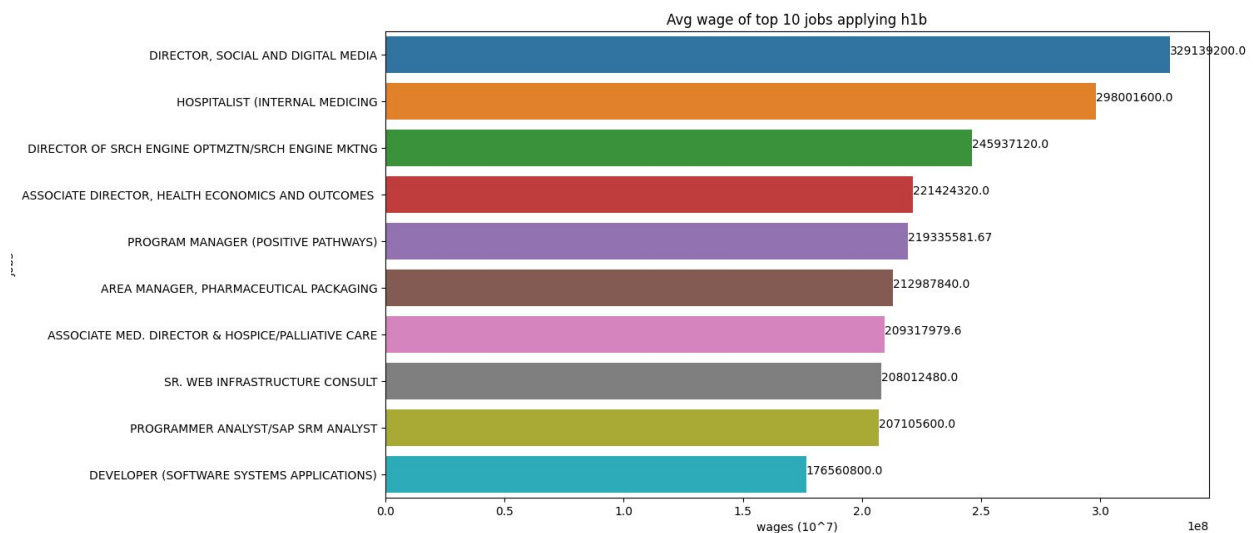
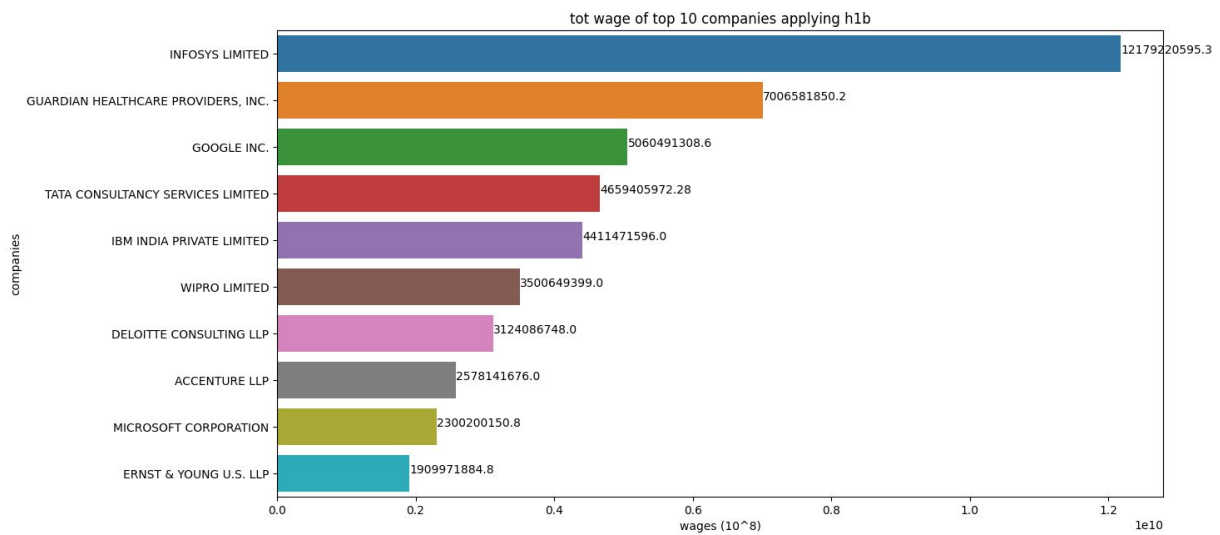


- Developer: Sophia Xiao @ 2020/1/12
- Dataset downloaded from Tianchi
<https://tianchi.aliyun.com/dataset/dataDetail?dataId=83994>
- Goal:
 - The total wages of top 10 companies (spend to hire) employers that apply H1B
 - Top 10 total wages (receive by employees who apply H1B) job title
- Website for study (cited):
 - <https://stackoverflow.com/questions/39922986/pandas-group-by-and-sum>
 - <https://stackoverflow.com/questions/27842613/pandas-groupby-sort-within-groups>
 - <https://www.kite.com/python/answers/how-to-display-the-value-of-each-bar-in-a-bar-chart-using-matplotlib-in-python>
- Steps:
 - Read dataframe from csv
 - Create a new dataframe containing company name/job title descending by total wages
 - Name the labels and title of the plot
 - Add annotation to the plot (here I look up at the website to see how)
 - Adjust the position of the plot after the visualization
- Problems I had during the project:
 - The annotation of the plot (showing value of each bar)
- Saved plot (company name VS wages && job title VS wages)



- Analysis:

- First plot (company vs wages)

- The 10 companies that pay the most money hiring people that applied H1B in 2016 are mostly in the IT software engineering industry (e.g. Google, Microsoft); then after that are business management consultations (e.g. Accenture); healthcare company is not apparently many in quantity,

but its expense is huge (up to 2nd place right after Infosys) - I think the expense of Medicare might be the reason for the high cost.

- Second plot (job title VS wages)

- I'm a little surprised by the result because I didn't expect for the directors in the list. I thought the top 10 will be close to the companies where mostly jobs in the IT or business industry - they do appear in the list, but are on the lower end of the rank. On the other hand, directors and hospital specialists are high in the list, which makes sense because although the companies are not hiring employees that many in quantity compared to the programmers, the wages of hospital specialists are high in my knowledge, I don't know about directors though.

- Conclusion:

- Mostly are companies in the IT and business industry are hiring the people who applying H1B
- People that got the highest wages in total are those of special skills such as doctors, directors, and programmers.