

Live Dashboard of r/lAmA

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1 OBJECTIVE

Our objectives are both from the questions we solved in the former Project2. Specifically, it consists of two parts as listed below.

1. Categories of hosts in r/IAmA. we'll provide an interactive plot to show the categories of hosts of r/IAmA posts (Figure 1) in the time span specified by the app visitors.

2. Word Frequency Analysis. we'll introduce an interactive plot to show the most frequent words occurring in each posts of r/IAMA. In our app (Figure 2), users can assign a time span(e.g. 2020-10-25 to 2020-11-11) to see the corresponding wordcloud plot.

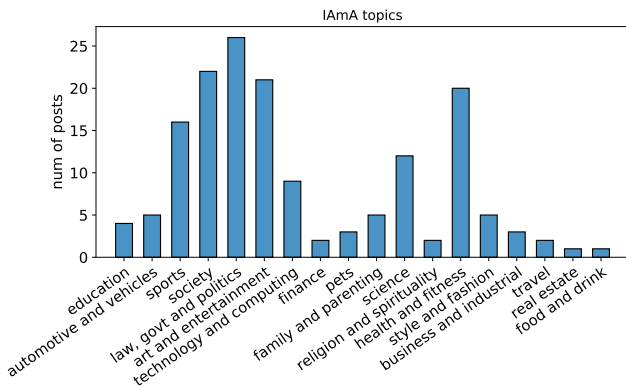


Figure 1: categories of IAmA hosts

2 METHODOLOGY

We plan to use Flask to build web dashboard framework. The implementation is divided into three steps:

1. Handle the user input time range to our python script in Project2. So that our scripts will generate corresponding plots.
2. Display the generated plots on web page.
3. Updating the firewall policy so that we can access the page from the extranet via VPN.

Since none of the three of us had experience in web development, our implementation would probably be crude and rudimentary.

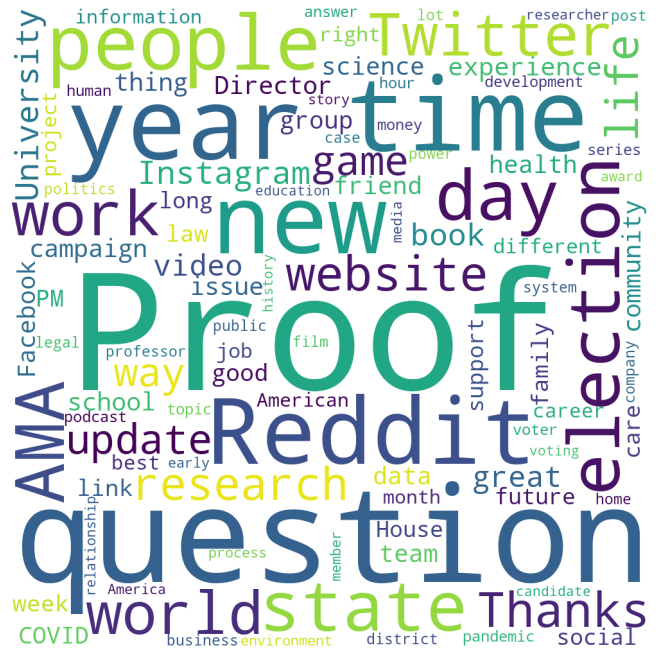


Figure 2: most frequent words in IAmA