# Hashtag suggester (Research)

Intent: The intent of this problem is to check the quality of research you can perform and the effectiveness of solutions that you can build on top of the research.

Problem: Hashtags are very important in any social network platform as it improves visibility of the content. As a user, I want to know the best hashtags for my content with minimal cognitive load. Design an algorithm that can suggest the best hashtags for the user.

Please look into the following before solving the problem:
- How IG hashtag algorithm works internally.
- What kind of data, related to hashtags, Instagram gives away through the graph APIs.


Evaluation structure: You will be evaluated on the following criteria
- Quality of research and knowledge gathering.
- Quality of the final solution in terms of accuracy and cost.

Submission

Organize all your research and document your solution in a doc. If you have made any assumptions, they should be clearly mentioned in the document.
Zip the folder containing all the artifacts and share it over email.


# Social media application

Intent: To check your understanding of the Flask framework and the quality of code you write.

Problem: You need to develop a basic social media application APIs, just to support the following features.

- As a user, I can log in to the application using a username and password.
- As a user, I can signup to the application creating a username and password.
- As a user, I should be able to see my feed.
    - You can assume that all users can see the content of each other.
    - Feed will be served in the latest first order.
- As a user, I should be able to create and publish a post.
    - Posts will be text only, with a title and description.
- As a user, I should be able to comment on the posts in my feed.
- As a user, I should be able to reply to comments.

- ○ The system does not support replies to replies.
- As a user, I should be able to delete my comments/replies.

Evaluation structure: You will be evaluated on the following criteria
- Readability and maintainability of the code.
- Database design.

Technology to use
- Flask
- Postgres

Submission

Zip the folder containing your code and share it over email.