FB DS Virtual Onsite

Statistics

- 1. Conditional Probability: Given bad actor rate is 1%, both false negative and false positives are 5%, whats the conditional probability?
- 2. What's the distribution of # of comment / active users?
 - a. follow-up question: pick P50 and P95 two groups of people, what would be the sample mean of these two groups after two weeks?
- c. A/ B testing results for video cancel auto-play
- d. N people, M impression, what's the expected value of impression per person?

Product Interpretation

- 1. Instagram story for close friends
 - a. How do you determine which country to roll out this feature?
 - b. What metrics you would use to measure success?
 - c. After launching this feature, we are seeing increase in engagement of this new feature while engagement with story to all friend decreased, how to investigate the root cause?
- 2. UI design change: the screen size for each post would decrease by 25% and there would be a "See more" button at the bottom of the post?
 - a. How do you evaluate the UI change
 - b. what are the success metrics?
 - c. How to design the experiment?
 - d. After launching the new UI, the performance in Thailand is better than that in US marketplace. How would you investigate?

Applied Data

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- 1. Restaurant you may like
- 2. High Quality Notification
- 3. Fake News
 - a. What kinds of sampling method you would use to quantify the fake news in a short period of time? (what data to use?)
 - b. What model to use and how to evaluate?
 - c. If bad actor know how to fool the detection mechanism, what would you do?

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