1. HOW TO CRACK PRODUCT SENSE/BUSINESS CASE/METRIC PROBLEMS?

CRACKING PRODUCT SENSE PROBLEMS

- What are Product Sense/Business Case/Metric Problems?
 - Why and when it is asked during an interview?
- 3 Categories of Questions & Frameworks
 - Diagnose a problem
 - Measure success
 - Launch or not
- Tips to Ace the Interview

WHAT ARE PRODUCT SENSE PROBLEMS?

WHAT ARE PRODUCT SENSE PROBLEMS?

- Why they are asked?
 - Evaluate candidates' ability to define metrics
 - **Diagnose and solve** real product problems
 - Some companies require familiarity on their products but most don't
- What if you don't have any experience?
 - You could master it by practice
 - You are on the right track by watching this video :)

WHAT ARE PRODUCT SENSE PROBLEMS?

- Why they are asked?
 - Evaluate candidates' ability to define metrics
 - **Diagnose and solve** real product problems
 - Some companies require familiarity on their products but most don't

WHAT IF YOU DON'T HAVE ANY EXPERIENCE?

WHAT ARE COMPANIES LOOKING FOR?

WHAT ARE COMPANIES LOOKING FOR?

- Structure demonstrates a systematic approach
- Comprehensiveness covers all important aspects
- Feasibility practical enough that it could be implemented realistically
- When it is asked during an interview?
 - Technical phone screen and onsite interview (>= 1 round)

THREE CATEGORIES OF QUESTIONS & FRAMEWORKS

DIAGNOSE A PROBLEM

You are given a scenario that one of the **important** metrics has shifted to the **negative** direction and you are asked to figure out the **root cause** of the issue

Why someone gets 👍 while others get 👎?

- 1. Clarify the scenario/metric
- 2. Time sudden or stable?
- 3. Other product/feature by the same company?
- 4. Segment by user demographic and behavioral features
- 5. Decompose the metric (optional)
- 6. Summarize overall approach

- 1. Clarify the scenario/metric
 - e.g. Estimate Time of Arrival
 - How start time and end time are defined?
 - Is start time at request or at pickup?

2. Time - sudden or stable?

- Internal Data source? Data collection? Bug?
- External Seasonality? Industry trend? Competitors? Special event?
 Natural disaster?

- 3. Other product/feature by the same company?
 - Have we made any change to our product line?
 - Have other related products experienced the same change?

- 4. Segment by user demographic and behavioral features
 - Regions
 - Languages
 - Platforms, i.e. iOS, Android, Web

- 5. Decompose the metric (optional)
 - Daily Active User (DAU) =

Existing users + New users + Resurrected users - Churned users

- ETA
- Ratio metric denominator and denominator

- 6. Summarize overall approach
 - Most reasonable causes
 - How to fix

MEASURE SUCCESS

You are asked how to measure the success/health of a product/feature

FRAMEWORK (MEASURE SUCCESS)

- 1. Clarify function and goal of the product/feature
 - What it does? How is it used? Who is it for?
 - Huge red flag if you start answering without clarification!

FRAMEWORK (MEASURE SUCCESS)

- 2. Define metrics (no more than 3)
 - 2 **Success** metrics to measure the success, e.g. daily active users, number of bookings and conversion rate
 - 1 **Guardrail** metric, should not degrade in pursuit of a new product/feature, e.g. cancelation rate and bounce rate
 - Good metrics should fit the context

LAUNCH OR NOT

You are asked how to test a product idea or whether to launch a product/feature

LAUNCH OR NOT

.....

Always need to make a recommendation on whether to launch the product or not!

FRAMEWORK (LAUNCH OR NOT)

- 1. Clarify goal and define metrics
 - Similar to **Measure Success**

FRAMEWORK (LAUNCH OR NOT)

2. Experimentation

- How to design it?
- How to split the users?
- How long to run it?

FRAMEWORK (LAUNCH OR NOT)

- 3. Recommendation Based on Experiment Results
 - Link results to the **goal** and **business impact**, e.g. what does 0.01% lift in conversation rate translate to revenue?
 - **Conflicting results**, e.g. increase in DAU but also increase in bounce rate
 - **Short-term** vs. **long-term**, e.g. launch brings in more users to the platform thus benefits may outweigh drawbacks

TIPS TO ACE THE INTERVIEW

Before the Interview

- Research the company
 - deeper and better conversation

During the Interview

- Always clarify the question
 - High-level goal
- Listen to the feedback, don't follow frameworks rigidly
- Write down thought process with bullet points