

# AI Interview Patterns

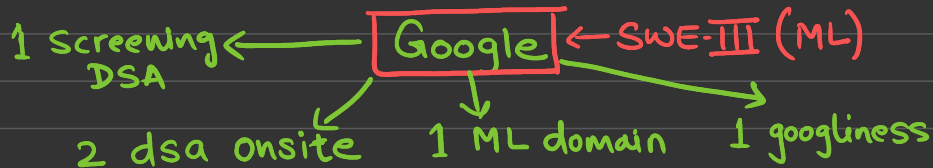


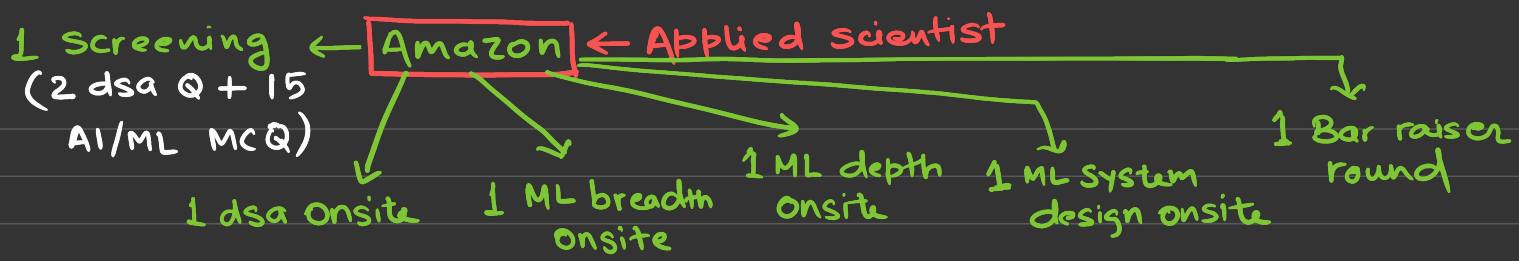
\* AI is evolving very fast. So is the roles and responsibilities

\* AI jobs roles are known by different names

- ML Engineer
- Software Engineer (AI/ML)
- AI Engineer
- Applied Scientist
- Data and Applied Scientist
- Research Scientists
- AI orchestration Engineer
- NLP Engineer
- LLM Engineer

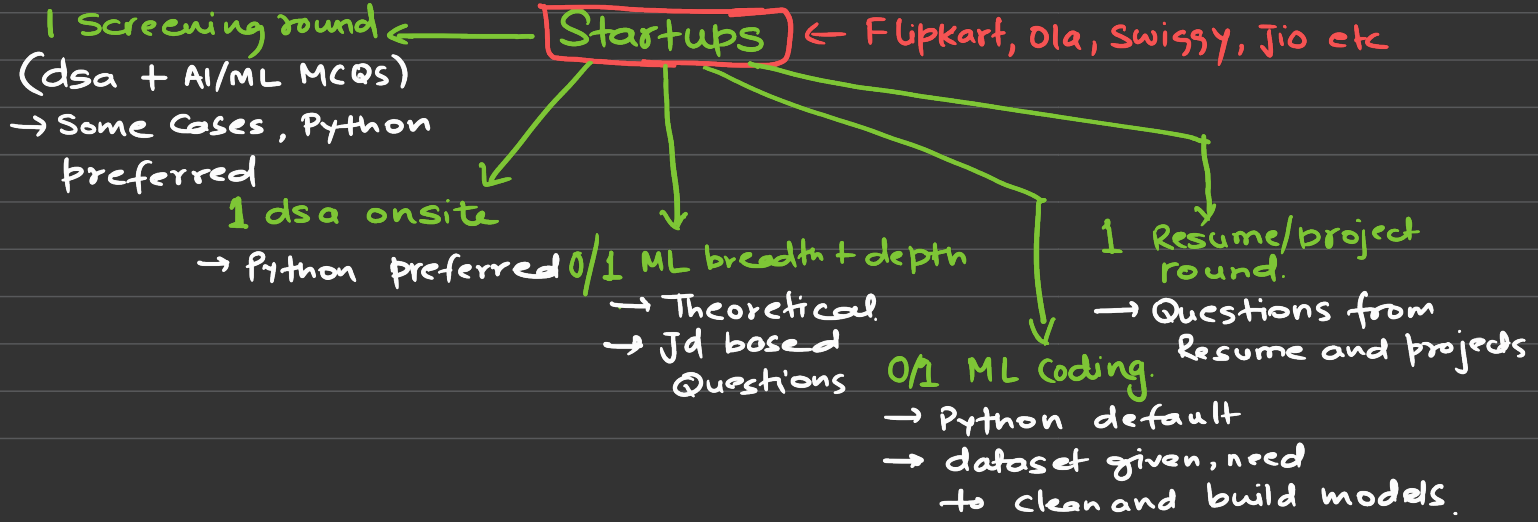
\* Even the interview process varies from Company to Company.





→ **No ML Coding** for both google and Amazon

→ you can code DSA in **any** programming languages  
↳ C++, Java, Python etc





\* If so, how to prepare and crack these roles??

↳ I observed some common patterns in all these interviews after interviewing for multiple Companies. This is what I want to share with you.

★ Let's decode the Patterns!!

# Decoding AI Interview Patterns

## ① Screening Round

- dsa coding Questions (level easier to SDE Interviews)
- AI/ML MCQ Questions
  - ↳ AI/ML Common Fundamental Concepts
  - ↳ Some question on JD topics
  - ↳ Some questions based on hiring team requirement and nature of business of Company.

## ② DSA coding round

- easy + medium coding Questions
  - ↳ Leetcode is more than enough.
- Smart folks will code in Python.

## ③ ML coding round

- Some dataset given.
  - ↳ preprocess the data, EDA, scaling, visualization
    - ↳ Use Pandas
  - ↳ Apply basic Classification/Regression algorithm
    - ↳ Use Sklearn



- In some top PBC, implement some loss function, Evaluation metrics, basic MLP implementation, basic text processing and document representation, basic Linear and logistic regression implementation, gradient descent etc
  - ↳ **No** library allowed. Code in Python and may use **Numpy**.

#### ④ ML Breadth round

- Theoretical Questions asked can cover a variety of topics
- Maths, ML, DL Fundamentals
- Some advanced concepts based on business problems they solve. Focus on **JD**

#### ⑤ ML Depth round

- Focus on projects mentioned in Resume (AI Projects)
- They will dig deep with **why, how?**



## ⑥ ML System design round

- In most cases, Hiring Manager takes this round
- Most important round. Checks your expertise in
  - ↳ Picking the best algorithm.
  - ↳ design a Scalable ML system
  - ↳ Creating end to end AI/ML pipeline.
- Given a vague problem to solve.
  - ↳ ex: design a recommendation engine for youtube/Amazon/Twitter/fb etc.
  - ↳ ex: design a image classification engine. say for 500 classes.
- Not a part of entry level roles but some startups may ask

## ⑦ Behavioural Round.

- Also called leadership round.
- Scenario based questions asked.
- Common in top **PBC** → Bar raiser round (Amazon)
  - ↓
  - Googliness round (Google)

