

Omkar -

DSA Round -

[Search in Rotated Sorted Array - LeetCode](#)

[Couples Holding Hands - LeetCode](#)

Project + System Design round

Asked about the overall flow of the application (Air Canvas)

Asked about the difficulties I faced and the solutions I considered

Asked about some edge cases, for example what will happen if the user does this, or if there is some specific problem

How will you approach designing Google type-ahead (the suggestions that appear in the dropdown as you type your search query). The suggestions should be based on what the user has entered earlier.

Jenish -

DSA Round -

Q1.

given an sorted array. every number is repeated twice except for one element. Find index of that element that occurs only once.

Solution : $O(\log n)$

Q2.

Graph given. Positive edge weights given. If you can turn one edge weight to half only once, find shortest path between given x to y.

Solution : DP on dijkstra

Project + System Design round

ML project explained. I explained why I used neural network. Why I used only three layers and my reasoning behind choosing dimension for each layer. Explained concept of folds introduced on hyperplane with each new linear which linearly adds upto make up complex curves in next layer. Gave reason for choosing all libraries for the project.

He asked about frontend of the project to which I said I didnt knew web dev so built a simple UI using streamlit.

How will you approach designing Google type-ahead (the suggestions that appear in the dropdown as you type your search query). The suggestions top searches worldwide.

Pushkar:

DSA Round:

<https://stackoverflow.com/questions/27753830/finding-minimum-number-of-points-which-covers-entire-set-of-intervals>

Given a vector of string of size 10 each, consisting of digits [0-9], and a target string (may contain duplicates). Find number of pairs of strings, whose concatenation contains exactly same unique digits as in target string, order of the digits doesn't matter within the string just the set of digits in the target string should be equal to set of digits of concatenated string.

(Using Bit manipulation)

012367 + 353678 = (target string) 01234678

Project + System Design round:

Asked about the project, what is the tech stack used, what are the difficulties faced during this project and how did I overcome those issues. They provide different scenarios where the code might fail. Like, How to manage if many users are accessing the same data from database, then how can I handle these issues. All questions were based on the projects only