Meesho

# **Slot: 1**

# **Procedure**

1. Test: Yes. (Online)
2. Interview Mode: Physical (OCCAP)

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# Sachin Kumawat

**Personal View**: -

**Status**: Rejected after second round.

**Interview Description**

## **Round 1:**

(checked ML understanding, Hypothesis testing, Aptitude, coding also asked to others):

1. Asked about movie recommendation system. What is content based and collaborative filtering movie recommendation, what is matrix factorization. What is countvectorizer, tf-idf, BERT. In matrix factorization write the loss function that you used.
2. Asked about vision transformer project, what is vision transformer how does it work, how CLS token summarise, does input CLS token different for different classes. Explain what positional encoding is and why do we used.
3. Last time where you worked, how can you implement data science there, I told defect identification using image classification, time prediction of maintenance of machine. asked how will you train your model to identify defects, what problem you can encounter, can you use pretrained model, if yes, how will you use them for this task.
4. What is word2vec.
5. What is byte pair encoding, how to implement, what is bleu score, what is transformer.
6. What is RNN and RNN with attention.
7. What is convex function, what is regularization, where will you use which regularization, how will you implement regularization in loss function, why we only use convex functions, what can happen if we don’t use convex functions, is sigmoid function a convex function, explain gradient descent to the person who don’t know anything about data science, how does it work.
8. What is kernel, why do we transform our data to higher dimensions, do we always transform data to higher dimensions, what function will you use to transform this kind of data (2-d data) to 3 dimensions space (gave an example). What number of dimensions can be considered high dimension.
9. What is decision tree, how will you decide splitting criteria, what if we don’t use square in GINI index what will happen.
10. How many paths will be there to reach from point (0,0) to point (4,9).
11. Assume you have given that meesho data scientist salary is more than the other organization employees salary how will you check this, how will you check the other organization mean salary that you got from the data is correct. Which method will you use one-sided p-value or two-sided p-value and why. Where will you use t-test and z-test.
12. Do you know about different distribution, tell me about exponential distribution and where will you use such kind of distribution, what if I take n samples of size of 100 from this distribution and plot their mean what will be the distribution of it, how many samples is enough to converge for normal distribution.

## **Round 2:**

**(checked how will you deal with real world problem):**

1. Tell me about yourself, what are you doing in shell project.
2. What is recommendation system, why used matrix factorization, can you use neural network in this project, how will you implement this what will be the input and output layer and what will be the loss function.
3. What is tf-idf, countvectorizer, word2vec, BERT how will you used it in this project.
4. How will you decide user vector dimension.
5. Why used cosine similarity, what other can be used?
6. How word2vec find word embedding, how will you train CBOW in this data, what will be the input and what will be the output layer.
7. What if you have imbalanced data what will happen in neural network what kind of result will it show, how will you handle this imbalanced data in this deep neural network.
8. You have amazon product reviews, which are not labelled, how will you label them, what technique you will use and why? Given two examples of review how review may look like. How will you handle false positive data in this.
9. If you have to find bug in programme, how will you find it?
10. What is n-gram, where is the use of different type of n-gram?

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