



# CAIR - DRDO Interview Experience



July 29, 2023

SASWAT BEHERA

Off Campus

**Roles : - JRF**

In total there were 2 rounds : -

- Written Round
- Interview Round

**Cleared Written round and results were announced after 1 hour.**

## **Question Asked in Interview Round**

1. Asked Introductory questions from where I belonged, where was I pursuing Masters from etc..
2. What were my course subjects?

3. What should we do when we get the data first?
4. What are the pre-processing steps for the data? (I answered for numerical data)
5. What is Linear Regression?
6. Can Linear Regression be used for classification?
7. What is tokenization?
8. What is SOTA?
9. What is unsupervised learning?
10. What is SVM?
11. What is Bubble sort?
12. What is real-time OS? Examples of it.
13. Characteristics of Mobile OS & Desktop OS? Why do we have different OS for each device?
14. How to train a Deep Learning Model without backpropagation?
15. Interviewer suggested Genetic Algorithm for the above approach, so I got a hint and started explaining how it could work. About the fitness function and then the mutation.
16. Asked me about which fitness function could be used here.
17. How to identify or separate semantically meaning words from a give string? eg. From HelloWorld, separate Hello, World, Hell.
18. What is overfitting? How to overcome it?
19. What is regularization? Why do we use it?
20. What is Symbolic & Non-Symbolic AI?
21. Question about LLMs (Large Language Models). (Didn't know about LLM so do not know remember about the question)
22. What is Slack Variable in SVM?
23. How can we infer from Deep Learning Models like Decision Trees?
24. There are 3 words :- cat, mat, dog. Which of them are similar?
25. How to check syntactic similarity? Is there any efficient algorithm?
26. How to check semantic similarity?
27. What is sub-word tokenization and why it is used?

28. What is the disadvantage of sub-word tokenization?
29. How can we have non-linear decision boundary for XOR function in simple Deep Learning Model? How can we achieve without using any non-linear functions or hidden layers?