Fujitsu AI Lab Researcher II Role

# **Slot: 2**

# **Procedure**

1. Test: Online (technical test on ML DL concepts)
2. Interview Mode: Physical

Initially company informed that they are going to take 2 rounds (1 technical + 1HR) but ended up taking 3 rounds (2 technical and 1 HR)

Also shortlisted candidates for AI lab role received 2 research papers, one day before the interviews and were asked to go through one of them. The aim of this was not to test candidate’s knowledge but to engage thought-provoking open-ended discussions focusing on the key ideas, insights, and potential research directions inspired by the paper

* 18 students were shortlisted for interviews of AI Lab researcher role
* Each round was elimination round
* 3 students were finally selected for this role

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# Vivek Dhamale

**Personal View**: This is a research position. Though they mention having research publications in reputed journals/conferences as eligibility in JD it's not compulsory. Be well prepared on your thesis and projects mentioned in your CV.

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| --- | --- |
| Interview Rounds | Interview Focus Areas |
| Round 1 | General understanding of Machine learning and mathematics concepts  Discussion on projects on CV and follow up questions around related concepts.  (Panel members were working in Gen- AI and Conversational AI division) |
| Round 2 | Mostly on LLM concepts. Py-torch coding  (Panel members were working in LLM division) |
| HR Round | Easy to moderate level HR questions. |

**Status**: Selected

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# Sameeksha Bhatia

**Personal View**: The interview was completely resume based, so know whatever you have written in your resume by heart and in depth, as they go into details.

**Status**: Selected

**Interview Description**

## **Round 1: Technical I**

Asked me about my strong topics in ML and DL. I said ensemble learning and transformers. Q1. Difference between bagging and boosting.

Q2. What are strong v/s weak learners, why are decision trees strong learners. Give an example of a weak learner.

Q3. Explain transformer architecture. How is encoder different from decoder? What is the need to use masked attention in decoder? What are LLMs, what is quantization and fine tuning, why is it done?

Q4. How have you used ViT and GPT2 in the image captioning project? Explain in detail. What is a token in ViT. Why is GPT and autoregressive model?

Q5. What is FLAN-T5 and how is it different from T5? And how do we limit the length of summary generated by transformer.

Q6. Make a linear layer in pytorch for a neural network. (Pseudo code)

## **Round 2: Technical II**

Starting with Introduction were surprised by my background in biotechnology and asked why I switched.

Asked in detail about my internship experience. Then we talked in detail about resume projects. I was also asked how I plan to implement my current knowledge to biotechnology, I discussed my MTech thesis.

They also talked about the research articles that they sent.

## **Round 3: HR**

Basic HR round. Where do you see yourself in the next 5 years, what are your aspirations, explained that it is a research profile, what kind of experience do I have in that area.

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# Sachin Kumawat

**Status**: Rejected

**Interview Description**

## **Round 1:**

1. Asked about the project that I have mentioned in my resume.
2. What is vision transformer, why did you select this project. Why cifar-10 dataset which is an old dataset.
3. What is attention.
4. Why did you only use RNN in machine translation tasks, what other can you use?
5. Which state of art model will you use for translation task?
6. What other than BART can you use for translation task?
7. Can you use GPT for translation tasks?
8. Do we simply put input to the encoder and decoder in BART?
9. What is denoising?
10. Asked about my MTech thesis project.
11. Why did you use MCMC?

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