

User:

Hello.

Assistant:

Hello! Thank you for taking the time to speak with me today about the Entry-Level Machine Learning Engineer position at G-Research. I'd like to ask you a few questions to learn more about your background and experience. Could you start by telling me about your experience with machine learning, particularly any projects or coursework you've completed in this area?

User:

I'm sure. So I'm currently pursuing my masters in AI from the University of Kent. For my final year project I'm trying to design a screening, interview screening system, leveraging the power of LLM chatbots to categorize as candidate as a good fit or a bad fit for the organization so that they can move on to the next round. This particularly entails front engineering and if that doesn't suffice we will look into fine-tuning the LLM for our specific needs after we get a huge data set of relevant interviews to fine-tune the model on.

Assistant:

That's an interesting project. Can you tell me more about your experience with Python, PyTorch, and NumPy? Have you used these tools in your coursework or projects?

User:

Yes, sure. So Python is very much required for any machine learning projects because of the huge amount of libraries already present in Python that facilitates machine learning. So yes, I've used Python both on development projects and on projects involving decision trees, Kaggle competitions, as well as the project I'm currently working on that is the screening project. Also similarly for cognitive neural networks, I've used NumPy. In fact, I've used NumPy for a lot of things, especially for cognitive neural networks, where the images are stored in the form of a NumPy array and we are to perform feature extraction on the images to classify the images. And Bytorch, while I've not specifically used Bytorch, I have used Keras to develop deep neural networks as well as CNN networks. I can translate this to Bytorch very easily. Thank you.

Assistant:

Thank you for sharing that information. Could you describe a challenging machine learning problem you've encountered and how you approached solving it?

User:

Yes, sure. While developing a cognitive neural network to test the minced fashion dataset, I came across an accuracy, the accuracy I was getting was 80%, mainly due to the fact that I was not performing the convolution kernels before passing it onto the deep neural network. However, once I fixed that problem and assigned a better optimizer for the entire system, the accuracy jumped up to 94%.

Assistant:

Thank you for your responses. We've come to the end of our initial screening interview. I appreciate your time today. You'll be hearing back from us soon regarding the next steps in the process. Do you have any quick questions about the role or the company before we conclude?

User:

No, I'm good. Thank you.

Assistant:

Thank you for your time. Have a great day!