



Introduction to Generative AI with AWS

Project Documentation Report

Visit [UDACITY Introduction to Generative AI with AWS Project Documentation Report](#) to make a copy of this document.

Complete the answers to the questions below to complete your project report. Create a PDF of the completed document and submit the PDF with your project.

Question	Your answer:
Step 2: Domain Choice What domain did you choose to fine-tune the Meta Llama 2 7B model on? Choices: <ol style="list-style-type: none">1. Financial2. Healthcare3. IT	2. Healthcare
Step 3: Model Evaluation Section What was the response of the model to your domain-specific input in the model_evaluation.ipynb file?	<p>The response was: Genomic characterization is essential for > the development of a successful vaccine and treatment strategy. Early identification of the pathogen and its antigenic profile is important for the development of an effective vaccine and treatment. The emergence of the new coronavirus has led to a pandemic of unprecedented magnitude.</p> <p>It can be seen that the model understands the subject, but the answers aren't too relevant.</p> <p>In this case, It talks about coronavirus and focuses on the importance of genomic characterisation for the development of vaccines and treatment strategies. It also talks about the coronavirus pandemic as something 'new', and it was 4 years ago, so it may not be up to date.</p> <p>Regarding the other inputs, it can be seen that it talks about quite general concepts, but does not go into more specific details, for that the fine tuning would be needed.</p>

Step 4: Fine-Tuning Section

After fine-tuning the model, what was the response of the model to your domain-specific input in the **model_finetuning.ipynb** file?

As seen in the model outputs after fine-tuning, the responses are more accurate and detailed, with more relevant content. It responds to the prompts more deeply. Comparing this prompt: 'Genomic characterization is essential for', In the model post fine-tuning, it mentions genome-wide association studies (GWAS) as a powerful tool, demonstrating more specialised knowledge, while the pre-trained one is more general.