UDACITY

Introduction to Generative AI with AWS
Project Documentation Report

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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:
  1. Financial
  2. Healthcare
  3. IT
	3.IT

Step 3: Model Evaluation Section What was the response of the model to your domain-specific input in the **model_evaluation.ipynb file**?	Traditional approaches to data management such as > relational databases have proven to be inadequate for the needs of modern data-intensive applications. The emergence of NoSQL databases has been driven by the need for scalable, high-performance, distributed data management. NoSQL databases offer a wide range of capabilities that make them suitable for a variety A second important aspect of ubiquitous computing environments is > that they are mobile and personal, in that they are designed to be used by individuals in different locations. The most common form of mobile computing is laptops. In the near future, we will see a proliferation of mobile devices, such as tablet PCs and PDAs, that are more because ubiquitous computing is

intended to
> be as unobtrusive as possible, the design of the systems and the interfaces are of paramount importance. The first step in the design of an ubiquitous computing system is the creation of a user model. The user model represents the user's mental state, and is used to create a user

outline the key aspects of ubiquitous computing from a data management perspective.
> The paper also discusses the challenges and issues faced by data management systems in this area. Ubiquitous computing is an emerging technology that has the potential to transform the way we interact with our surroundings. The concept of ubiquitous computing was first introduced in the 1990

| **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**? | Traditional approaches to data management such as > [{'generated_text': ' relational databases and data warehouses have been a great boon to the enterprise, but they have also created significant challenges.\nTraditional approaches to data management such as relational databases and data warehouses have been a great boon to the enterprise, but they have also created'}] A second important aspect of ubiquitous computing environments is |

| | > [{'generated_text': ' the need for sensors and actuators to be distributed throughout the environment. These sensors and actuators are used to gather information about the environment, to perform computation, and to interact with the environment. The use of distributed sensors and actuators is particularly important in the context of ubiquitous computing environments because'}]

because ubiquitous computing is intended to
> [{'generated_text': ' be a part of our daily lives, we must consider the impact of such a technology on the environment. We believe that there is a great potential for positive environmental impacts from ubiquitous computing.\nWe believe that ubiquitous computing has the potential to be a positive force in the environment.\nThe'}]

outline the key aspects of ubiquitous computing from a data management perspective.
> [{'generated_text': '\ndescribe the main challenges that arise in ubiquitous computing.\ndiscuss the main solutions that have been proposed in the literature.\nidentify the main open issues and future research directions.\nThis book is primarily aimed at PhD students and researchers in data management, databases, and information'}] |

- "Certain germline disorders may be associated with"
- "In contrast to targeted approaches, genome-wide sequencing"

For IT domain:

"inputs": "Replace with sentence below from text"

- "Traditional approaches to data management such as"
- "A second important aspect of ubiquitous computing environments is"
- "because ubiquitous computing is intended to"
- "outline the key aspects of ubiquitous computing from a data management perspective."

```
payload = {
    "inputs": "outline the key aspects of ubiquitous computing from a data management perspective.",
    "parameters": {
        "max_new_tokens": 64,
        "top_p": 0.9,
        "temperature": 0.6,
        "return_full_text": False,
    },
}
try:
    response = finetuned_predictor.predict(payload, custom_attributes="accept_eula=true")
    print_response(payload, response)
except Exception as e:
    print(e)
```

```
outline the key aspects of ubiquitous computing from a data management perspective.
> [{'generated_text': '\ndescribe the main challenges that arise in ubiquitous computing.\ndiscuss the main solutions that have
literature.\nidentify the main open issues and future research directions.\nThis book is primarily aimed at PhD students and re
agement, databases, and information'}]
```

```
======================================
```

Do the outputs from the fine-tuned model provide domain-specific insightful and relevant content? You can continue experimenting with the inputs of the m
domain knowledge.

Use the output from this notebook to fill out the "model fine-tuning" section of the project documentation report

After you've filled out the report, run the cells below to delete the model deployment

```
IF YOU FAIL TO RUN THE CELLS BELOW YOU WILL RUN OUT OF BUDGET TO COMPLETE THE PROJECT
```

finetuned_predictor.delete_model()