

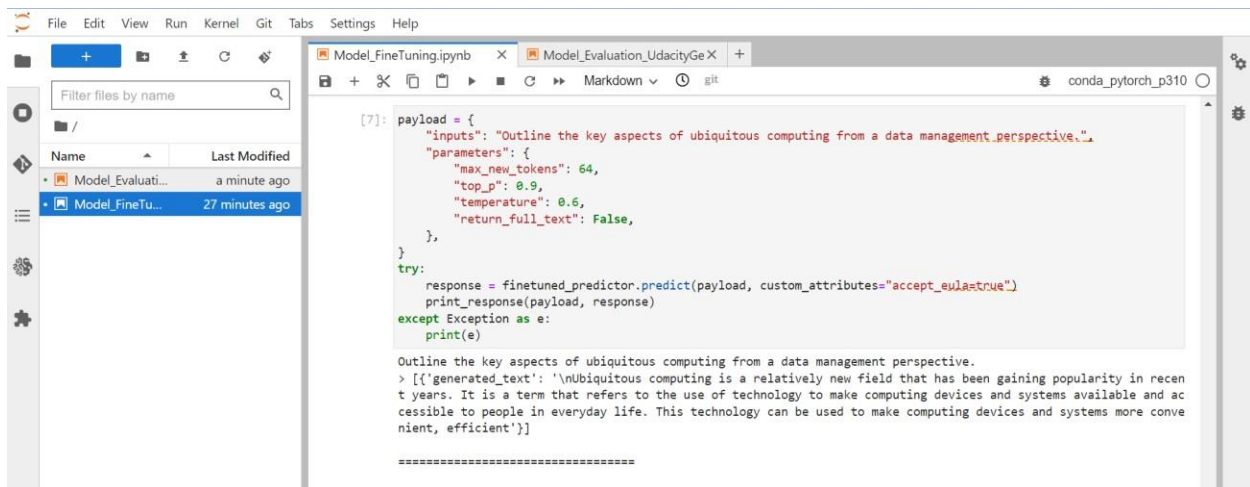
## UDACITY

### 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.

#### 1) Screenshot of the Model\_FineTuning.ipynb file with the cell output of the input: “Outline the key aspects of ubiquitous computing from a data management perspective.” :



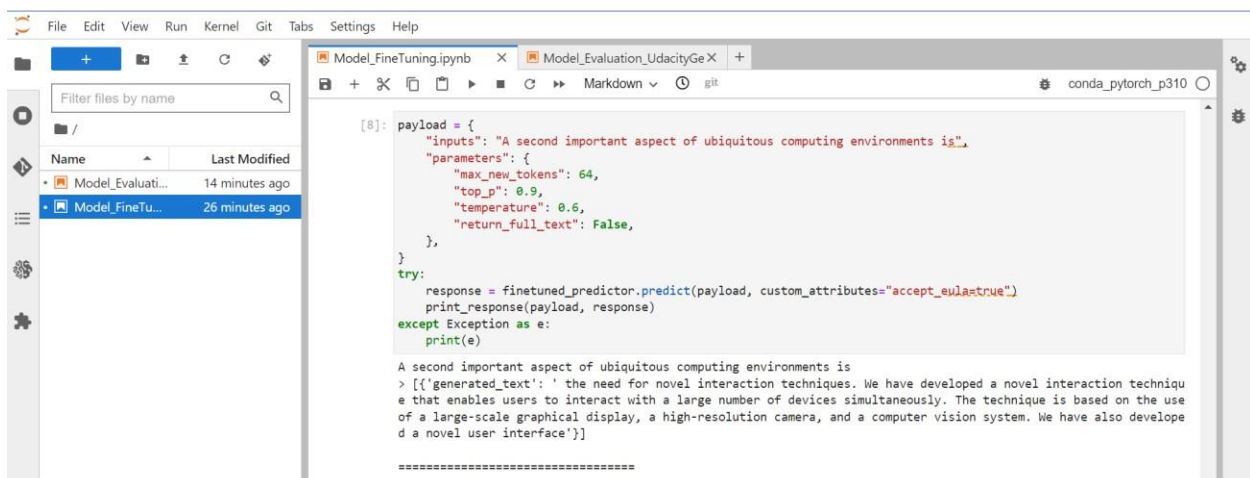
The screenshot shows a Jupyter Notebook with two tabs: 'Model\_FineTuning.ipynb' and 'Model\_Evaluation\_UdacityGe...'. The 'Model\_FineTuning.ipynb' tab is active, displaying a code cell [7] that defines a payload and uses a 'finetuned\_predictor' to generate text. The output of the cell is a JSON object containing a 'generated\_text' field with the following text: 'Outline the key aspects of ubiquitous computing from a data management perspective. > [{'generated\_text': '\nUbiquitous computing is a relatively new field that has been gaining popularity in recent years. It is a term that refers to the use of technology to make computing devices and systems available and accessible to people in everyday life. This technology can be used to make computing devices and systems more convenient, efficient'}]'. The output is followed by a series of equals signs.

```
[7]: 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': '\nUbiquitous computing is a relatively new field that has been gaining popularity in recent years. It is a term that refers to the use of technology to make computing devices and systems available and accessible to people in everyday life. This technology can be used to make computing devices and systems more convenient, efficient'}]

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```

#### 2) Screenshot of the Model\_FineTuning.ipynb file with the cell output of the input: “A second important aspect of ubiquitous computing environments.” :



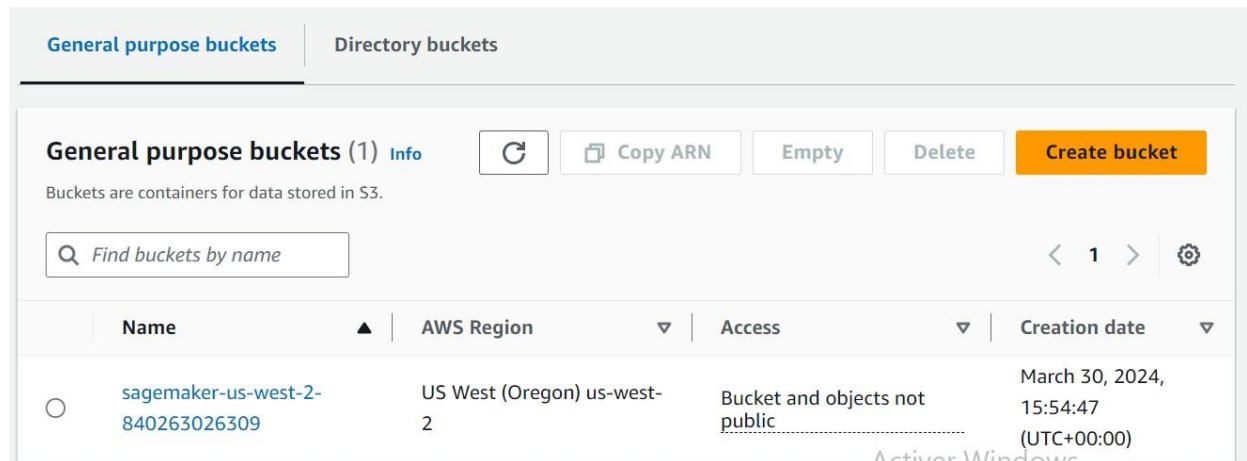
The screenshot shows the same Jupyter Notebook interface as the first screenshot, but with the 'Model\_FineTuning.ipynb' tab displaying a different code cell [8]. The code cell defines a payload with the input 'A second important aspect of ubiquitous computing environments is' and uses the 'finetuned\_predictor' to generate text. The output is a JSON object containing a 'generated\_text' field with the following text: 'A second important aspect of ubiquitous computing environments is > [{'generated\_text': ' the need for novel interaction techniques. We have developed a novel interaction technique that enables users to interact with a large number of devices simultaneously. The technique is based on the use of a large-scale graphical display, a high-resolution camera, and a computer vision system. We have also developed a novel user interface'}]'. The output is followed by a series of equals signs.

```
[8]: payload = {
      "inputs": "A second important aspect of ubiquitous computing environments is",
      "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)

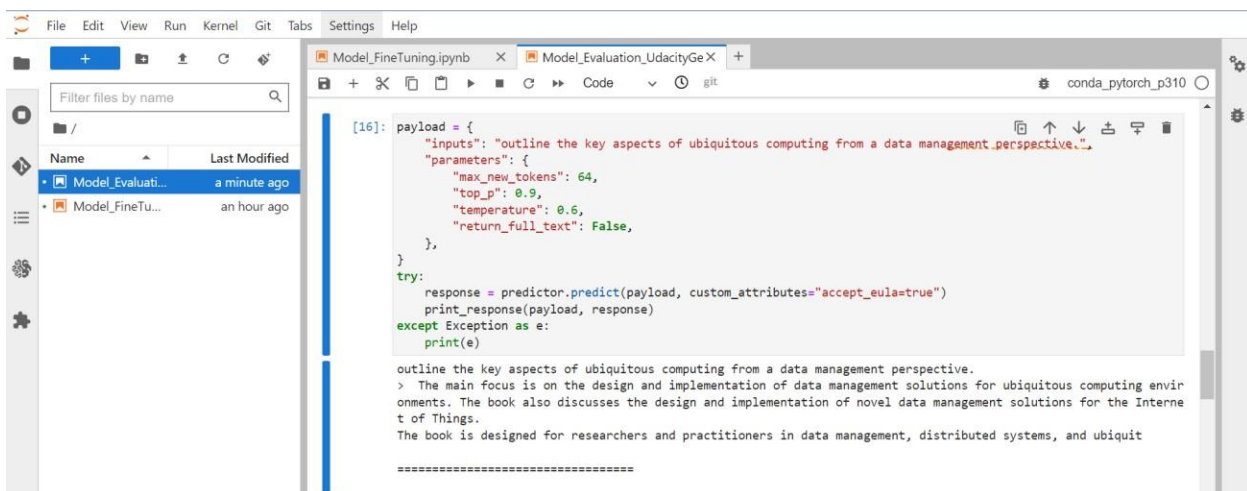
A second important aspect of ubiquitous computing environments is
> [{'generated_text': ' the need for novel interaction techniques. We have developed a novel interaction technique that enables users to interact with a large number of devices simultaneously. The technique is based on the use of a large-scale graphical display, a high-resolution camera, and a computer vision system. We have also developed a novel user interface'}]

=====
```

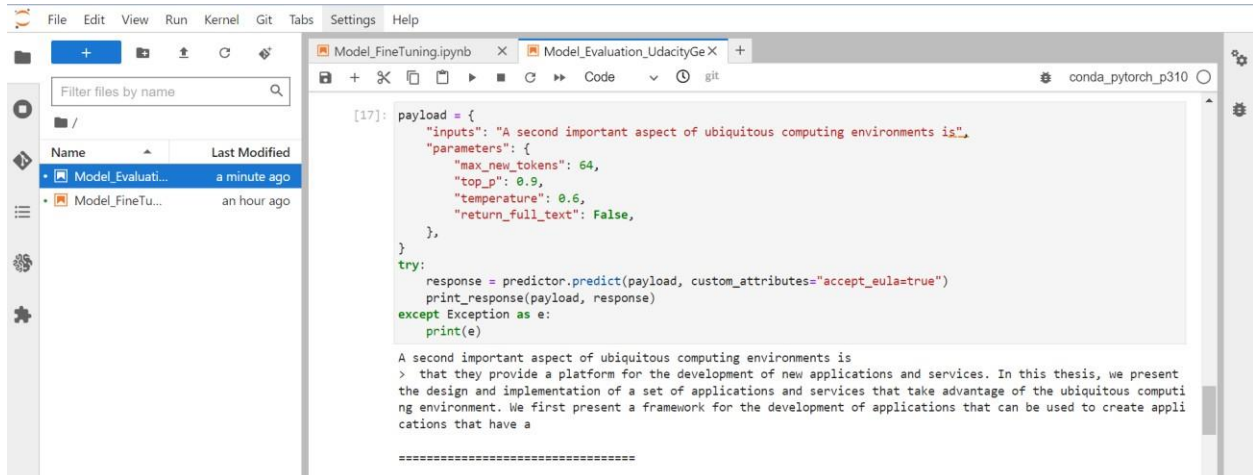
3) Screenshot of the AWS S3 bucket where the fine-tuned model weights are stored after training :



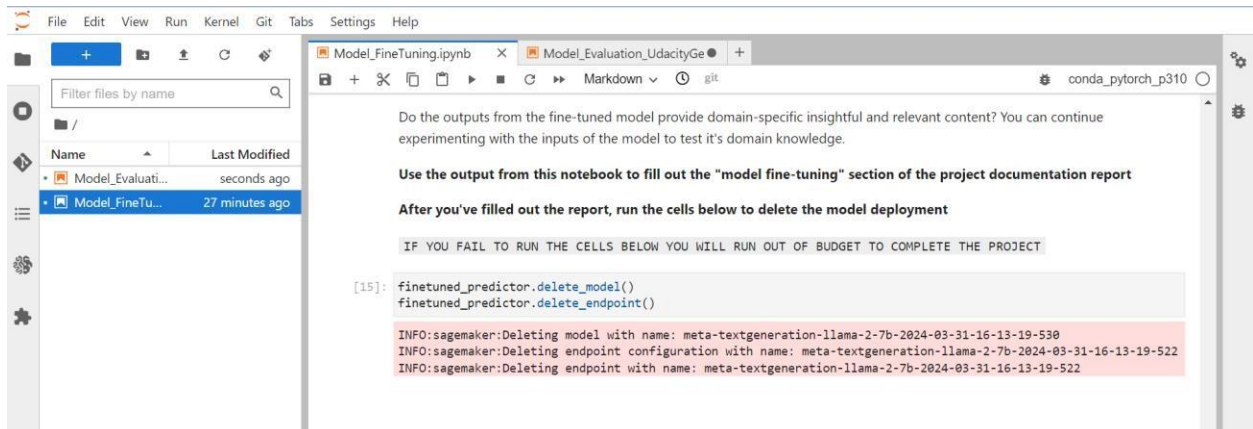
4) Screenshot of the Model\_Evaluation\_Udacity\_Generative\_AIAWS.ipynb file with the cell output of the input: “Outline the key aspects of ubiquitous computing from a data management perspective.” :



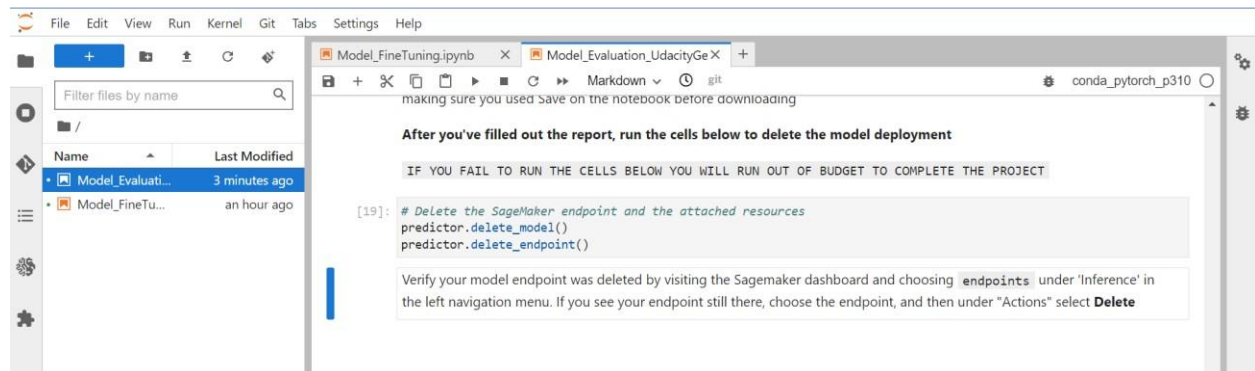
5) Screenshot of the Model\_Evaluation\_Udacity\_Generative\_AI\_AWS.ipynb file with the cell output of the input: “A second important aspect of ubiquitous computing environments.” :



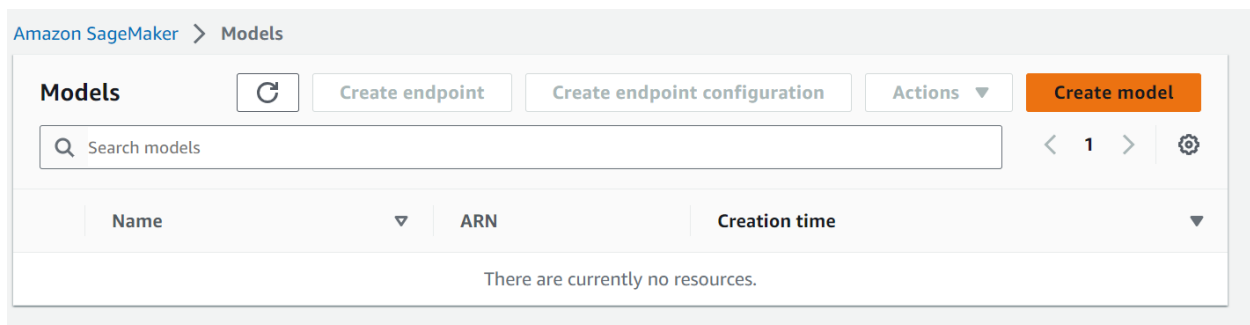
6) Screenshot of the Model\_FineTuning.ipynb file with the cell that delete the model deployment and endpoint ran :



7) Screenshot of the Model\_Evaluation\_Udacity\_Generative\_AI\_AWS.ipynb file with the cell that delete the model deployment and endpoint runned :



8) Screenshot of verification of the model has been deleted :



9) Screenshot of verification of the endpoint has been deleted :

