

UDACITY

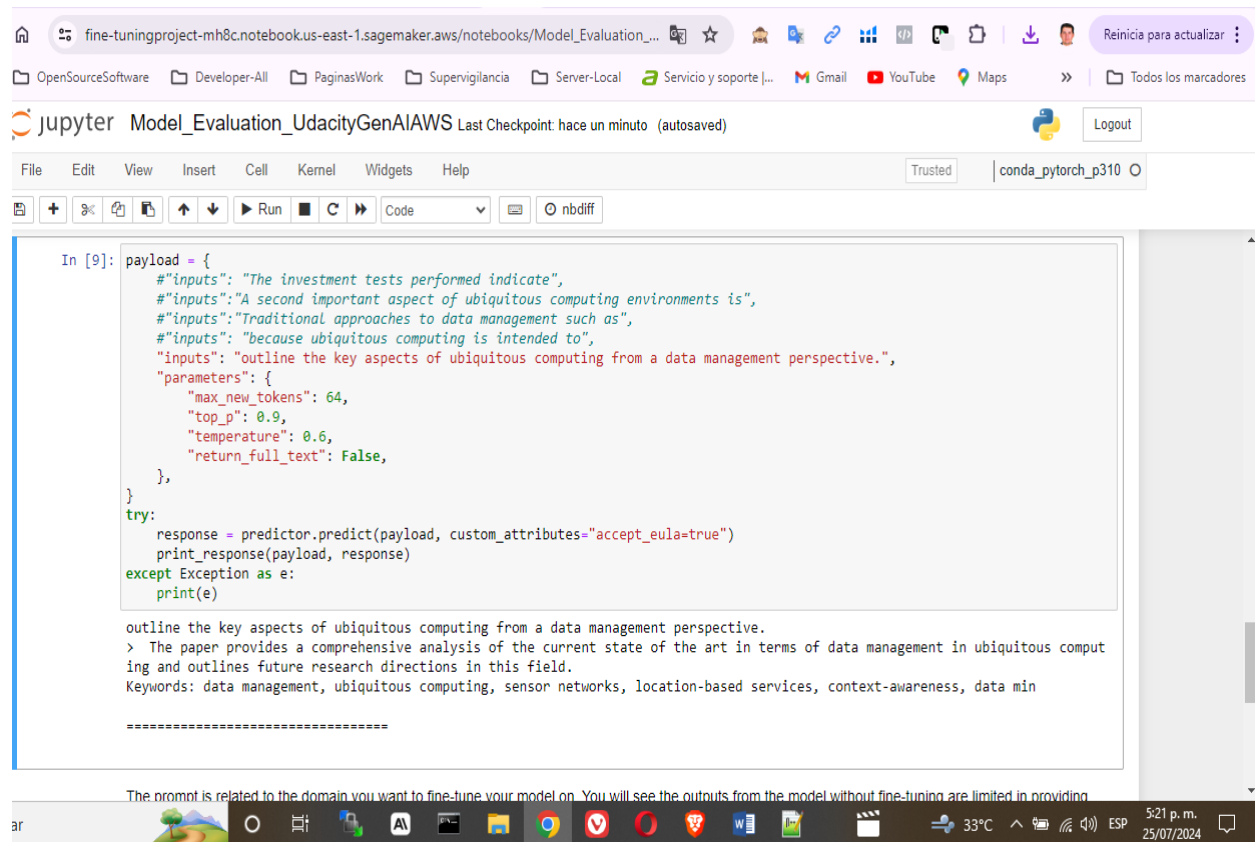
Introduction to Generative AI with AWS

Project Documentation Report - Screenshots of both notebooks with cell output

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

1. Take a screenshot of the **Model_Evaluation.ipynb** file with the cell output as proof you completed this step of the project

We can see the cell output for the input: ***‘outline the key aspects of ubiquitous computing from a data management perspective’***



The screenshot shows a Jupyter Notebook interface in a web browser. The browser address bar shows the URL: `fine-tuningproject-mh8c.notebook.us-east-1.sagemaker.aws/notebooks/Model_Evaluation_...`. The notebook title is `Model_Evaluation_UdacityGenAIAWS`. The interface includes a menu bar (File, Edit, View, Insert, Cell, Kernel, Widgets, Help) and a toolbar with icons for file operations, running, and saving. The code cell contains the following Python code:

```
In [9]: payload = {
    #inputs: "The investment tests performed indicate",
    #inputs: "A second important aspect of ubiquitous computing environments is",
    #inputs: "Traditional approaches to data management such as",
    #inputs: "because ubiquitous computing is intended to",
    "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 = predictor.predict(payload, custom_attributes="accept_eula=true")
    print_response(payload, response)
except Exception as e:
    print(e)
```

The output of the code cell is as follows:

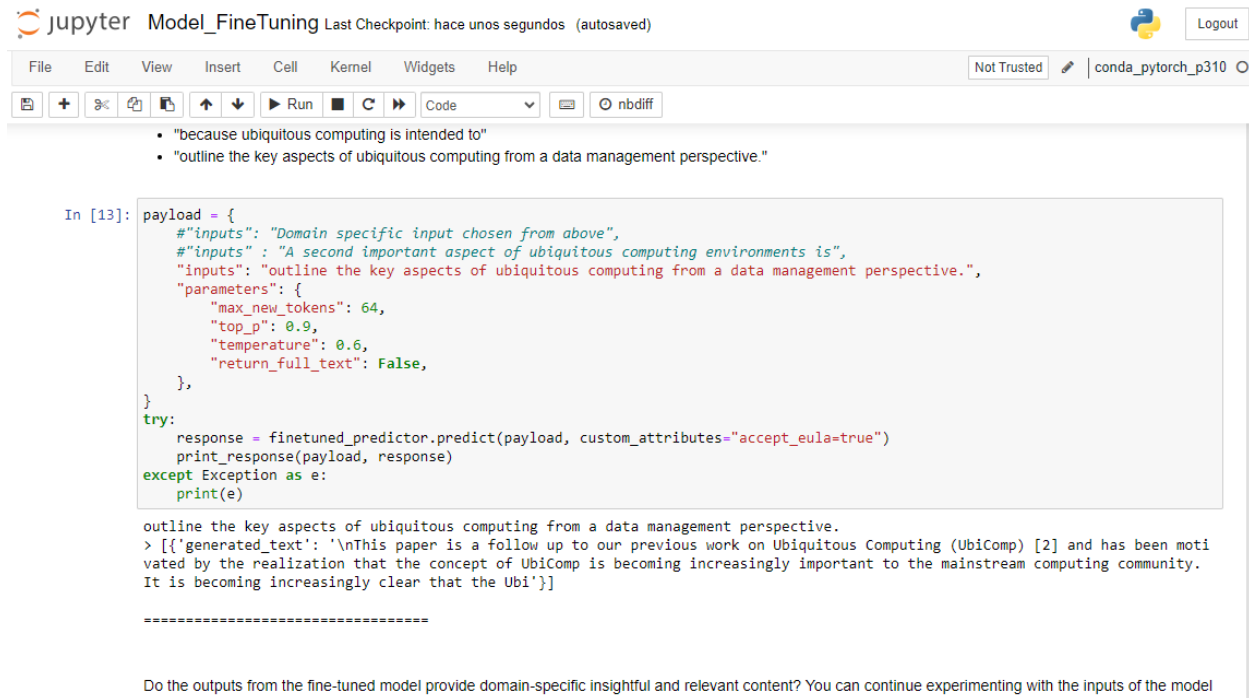
```
outline the key aspects of ubiquitous computing from a data management perspective.
> The paper provides a comprehensive analysis of the current state of the art in terms of data management in ubiquitous computing and outlines future research directions in this field.
Keywords: data management, ubiquitous computing, sensor networks, location-based services, context-awareness, data min

=====
```

At the bottom of the notebook, there is a warning message: "The prompt is related to the domain you want to fine-tune your model on. You will see the outputs from the model without fine-tuning are limited in providing". The Windows taskbar at the bottom shows the date and time as 5:21 p.m. on 25/07/2024.

2. Take a screenshot of the **Model_FineTuning.ipynb** file with the cell output as proof you completed this step of the project

For this notebook, We can see the cell output for the input: ***'outline the key aspects of ubiquitous computing from a data management perspective'***



The screenshot shows a Jupyter Notebook titled "Model_FineTuning" with a last checkpoint of "hace unos segundos (autosaved)". The interface includes a top bar with "File", "Edit", "View", "Insert", "Cell", "Kernel", "Widgets", and "Help" menus. Below the menus is a toolbar with icons for file operations, running, and saving. The notebook content shows a code cell with the following Python code:

```
In [13]: payload = {
    # "inputs": "Domain specific input chosen from above",
    # "inputs": "A second important aspect of ubiquitous computing environments is",
    "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)
```

The output of the code cell shows the generated text:

```
outline the key aspects of ubiquitous computing from a data management perspective.
> [{"generated_text": '\nThis paper is a follow up to our previous work on Ubiquitous Computing (UbiComp) [2] and has been motivated by the realization that the concept of UbiComp is becoming increasingly important to the mainstream computing community. It is becoming increasingly clear that the Ubi'}]
```

Below the output, there is a prompt: "Do the outputs from the fine-tuned model provide domain-specific insightful and relevant content? You can continue experimenting with the inputs of the model".

3. Visit the **AWS S3 bucket** where your fine-tuned model weights are stored after training and take a screenshot for your submission.

