

**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:
<b>Step 2: Domain Choice</b> What domain did you choose to fine-tune the Meta Llama 2 7B model on? Choices: 1. Financial 2. Healthcare 3. IT	Financial Domain
<b>Step 3: Model Evaluation Section</b> What was the response of the model to your domain-specific input in the <b>model_evaluation.ipynb</b> file?	<p>The investment tests performed indicate            &gt; that the proposed method is robust and can be used to identify the optimal number of investment projects.            KW - Investment project selection            KW - Robust optimization            KW - Stochastic programming            KW - Stochastic test            JO - European Journal of Operational Research            J</p> <pre> payload = {   "inputs": "The investment tests performed indicate",   "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) </pre> <p>The investment tests performed indicate            &gt; that the proposed method is robust and can be used to identify the optimal number of investment projects.            KW - Investment project selection            KW - Robust optimization            KW - Stochastic programming            KW - Stochastic test            JO - European Journal of Operational Research            J</p> <p>=====</p>
<b>Step 4: Fine-Tuning Section</b> After fine-tuning the model, what was the response of the model to your domain-specific input in the <b>model_finetuning.ipynb</b> file?	<p>The investment tests performed indicate            &gt; [{"generated_text": ' that the proposed investment is a suitable investment for the company.\n\nThe company has a very strong financial position and is able to pay the amount</p>

of the investment.\n\nThe company is a leading player in the industry and has a very strong brand name.\n\nThe company has a strong market share and is well']]

```
payload = {
    "inputs": "The investment tests performed indicate",
    "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 investment tests performed indicate
> [{"generated text": ' that the proposed investment is a suitable investment for the company.\n\nThe company has a very strong financial position and is able to pay the amount of the investment.\n\nThe company is a leading player in the industry and has a very strong brand name.\n\nThe company has a strong market share and is well'}]
```

**Screenshot (below) of Step 3: Model Evaluation Section:** What was the response of the model to your domain-specific input in the `model_evaluation.ipynb` file?

```
payload = {
    "inputs": "The investment tests performed indicate",
    "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 investment tests performed indicate
> that the proposed method is robust and can be used to identify the optimal number of investment
projects.
KW - Investment project selection
KW - Robust optimization
KW - Stochastic programming
KW - Stochastic test
JO - European Journal of Operational Research
J

=====
```

**Screenshot (below) of 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?

```
: payload = {
    "inputs": "The investment tests performed indicate",
    "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 investment tests performed indicate  
> [{'generated\_text': ' that the proposed investment is a suitable investment for the company.\n\nThe company has a very strong financial position and is able to pay the amount of the investment.\n\nThe company is a leading player in the industry and has a very strong brand name.\n\nThe company has a strong market share and is well'}]

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