

# Infosys

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## Responsible AI Office

### Infosys Responsible AI Toolkit – Explainability (LLM) tenet API usage Instructions

#### Contents

Introduction.....	2
Open AI LLM Call.....	2
Image Generation .....	3

# Introduction

**LLM** provides an implementation for generating images using a Large Language Model (LLM). It demonstrates how natural language prompts can be interpreted and transformed into visual content through model pipelines that integrate natural language understanding with image synthesis. Additionally, the repository includes endpoint for interacting with LLMs—specifically OpenAI’s services.

Once API swagger page is populated as per instructions given in the github repository Readme file, click on ‘try it out’ to use required endpoints. Details of endpoints associated with LLM are outlined below.

## Open AI LLM Call

**Endpoint** - /rai/v1/llm/openai

Using this API, we can generate an explanation for the given input. It provides concise and relevant reasoning based on the input text.


### Input:

In the messages field in the input Json pass the prompt needed to be checked, using temperature score can set the creativity in the response generated and we can add model as gpt4 or gpt4O or gpt3.

```
{
  "messages": "[[{"role": \"user\", \"content\": \"which is the biggest country in the world?\"}]]",
  "temperature": 0,
  "model": "gpt4",
  "max_tokens": 800,
  "top_p": 1,
  "frequency_penalty": 0,
  "presence_penalty": 0,
  "stop": "None"
}
```

### Response:

```
{
  "text": "The biggest country in the world by land area is Russia. It spans approximately 17.1 million square kilometers (6.6 million square miles), making it the largest country on Earth. Russia stretches across Eastern Europe and northern Asia, covering 11 time zones and encompassing a wide variety of landscapes, including forests, tundra, mountains, and plains.",
  "index": 0,
  "finish_reason": "stop"
}
```

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# Image Generation

**Endpoint** – /rai/v1/llm/image

Using this API, we can generate the image in base64 format for the given input prompt.

**Input:**

**prompt:** Replace the prompt with the prompt you want to generate image

**model:** "DALL-E-2" – Use this model

```
{
  "prompt": "Generate an image of a doctor with a stethoscope.",
  "model": "DALL-E-2"
}
```

**Response:**

Response body

```
{
  "image": "iVBORw0KGgoAAAANSUHEugAABAAAAQAIAAAAw77UAAA7/nnHq1gAADv+anvTYgAAAB5qdK1KyZ3wYQARABCAAAQd1bcQjpmhHAAAA09hqdm1AAAAAR2p1bwrjmm1hABEAETAAAKoA0Txa3Vybjp1dm1K0mEwWjE5ZjBkLTMyYzQ...
}
```