

Fundamentals of Agentic AI - Assignment Solution

Introduction to Agentic AI: Exploring the OpenAI Platform

Objective

To understand and interact with various capabilities of the OpenAI platform, including prompt engineering, realtime models, Assistants API, and text-to-speech features.

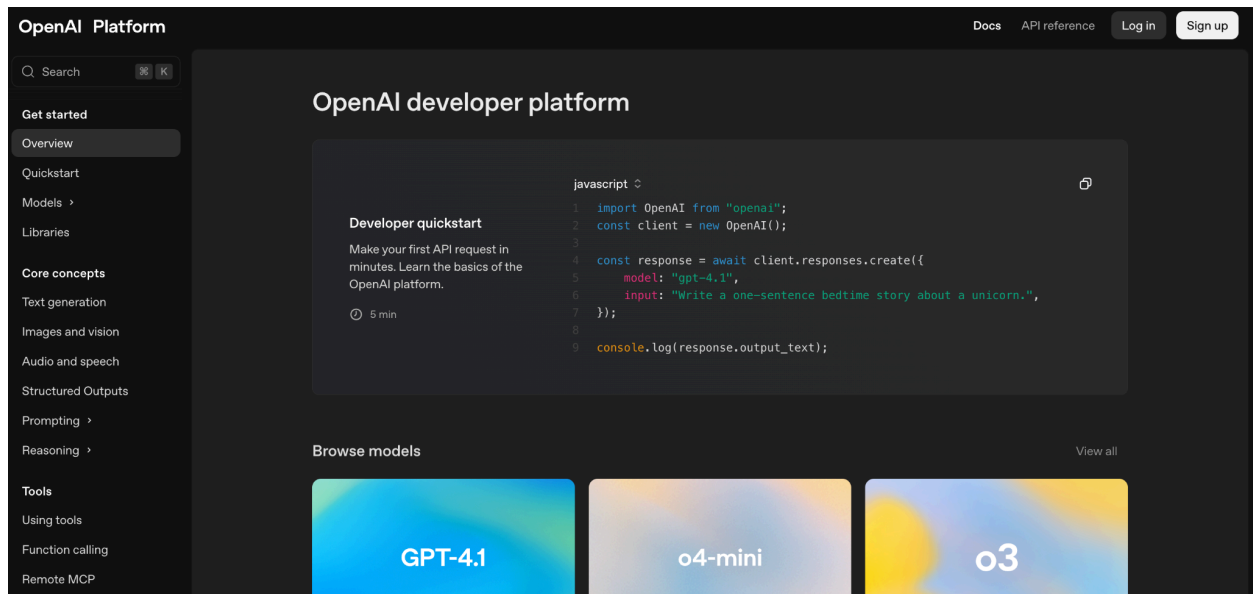
Pre-requisites:

- An OpenAI account: <https://platform.openai.com>
 - A valid payment method to load USD \$5 in credits
 - A PDF version of your resume
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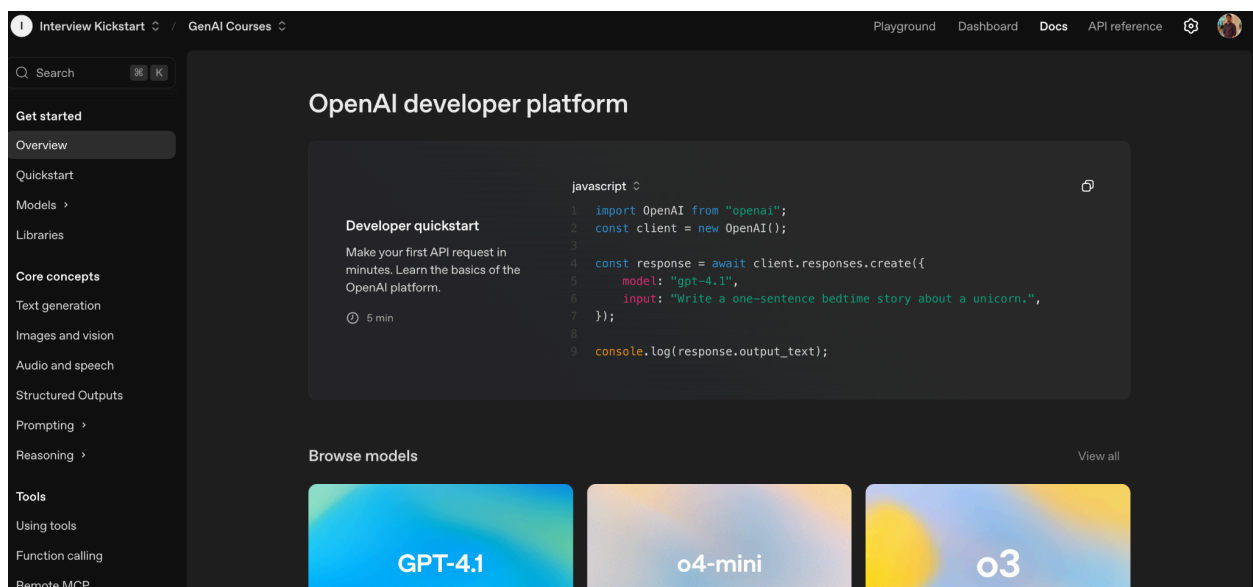
Assignment Steps & Responses:

Step 1: Access the Platform

Action: Navigate to <https://platform.openai.com>




Observation: Successfully logged in to the OpenAI Developer Platform. Main dashboard shows tabs like Playground, Assistants, Usage, TTS, etc.



Step 2: Add Billing Credits

Action:

- Click the **Settings**  icon at the top right
 - Go to **Billing**
 - Add \$5 of credits using your preferred payment method
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Step 3: Explore Prompt Features in Playground

a. Prompt with Latest GPT Model (gpt-4o / gpt-4-turbo)

Prompt Tried:

“Act as a career coach. Review the following resume section and suggest improvements: [Insert text]”

Observation:

The model provided detailed, well-structured feedback and formatting suggestions.

b. Prompt with GPT-mini Model

Prompt Tried:

“Summarize the following paragraph in one sentence.”

Observation:

Faster response, slightly less detailed output compared to GPT-4o.

c. Prompt with GPT-nano Model

Prompt Tried:

“Translate: ‘The weather is great today’ into Spanish.”

Observation:

Good for lightweight tasks; simple and efficient. Best used in constrained environments or edge devices.

d. Prompt with Reasoning Model (O-series)

Prompt Tried:

“What will be the output of the code: for i in range(3): print(i*i)?”

Observation:

Strong at logical and mathematical reasoning, with accurate step-by-step explanation.

Step 4: Interact with Realtime Model (gpt-4o-realtime)

Action:

Navigate to the **Realtime** tab in Playground. Start a chat session with [gpt-4o-realtime](#).

Prompts Tried:

- “What’s the fastest way to get to Mars using current technology?”
- “What is a funny joke involving cats and quantum physics?”

Observation:

- Super quick response time.
- Can simulate real-time dialogue.
- Ideal for customer service bots, co-pilot experiences, virtual tutors, etc.

Applications Identified:

- Live chat support
 - Instant feedback tutors
 - Voice-based real-time assistants
 - Creative brainstorming in fast-paced environments
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Step 5: Use the Assistants API

Action:

Navigate to the **Assistants** tab.

- Create a new assistant: *Name*: “Resume Reviewer Bot”
- Upload your **Resume.pdf**

- Ask:
 - “Summarize my career highlights.”
 - “What’s one thing I can improve in this resume?”
 - “Rewrite my experience section in STAR format.”

Observation:

- Accurately parsed content from PDF.
- Gave contextual, targeted suggestions.
- Demonstrates high potential for document-based support tools.

Sample Assistant Response:

“Your experience in ESG consulting is strong. To improve impact, consider quantifying results (e.g., % emissions reduced, # clients trained).”

Step 6: Explore Text-to-Speech (TTS) Feature

Action:

Navigate to the **TTS** tab.

Input Prompt:

“Hi! I’m excited to learn about Agentic AI and how it can transform industries!”

Voice Type:

Nova (Selected from right sidebar)

Instructions Added:

“Speak in a friendly and bright voice.”

Observation:

- Generated clear, natural-sounding audio.
 - Excellent for voice interfaces, accessibility, podcasts, educational content.
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Summary of Learnings:

Feature	Key Learning	Use Case
Playground Prompts	Compared outputs of different models	Chatbots, summarization, translation
GPT Realtime	Super fast response time	Virtual agents, instant feedback
Assistants	File-aware agents	Resume analysis, customer onboarding
TTS	Natural voice synthesis	Voice assistants, accessibility, narration

Reflections

This assignment helped me understand how OpenAI's platform powers real-world Agentic AI use cases. The experience with realtime models and Assistants showed how multi-modal and interactive AI is evolving beyond just chat.
