

# DOCUMENTATION ON AGENTIC AI



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# *Overview*



1. Agentic AI

2. LLMs (Large Language Models)

3. How LLMs Work

4. Generative AI

5. Difference Between Agentic AI and Generative AI

6. OpenAI SDK and its Benefits





Q1. What is Agentic Ai?



Ans. Agentic AI is a type of artificial intelligence that can act independently, set goals, and make decisions to achieve those goals — without needing constant human guidance.





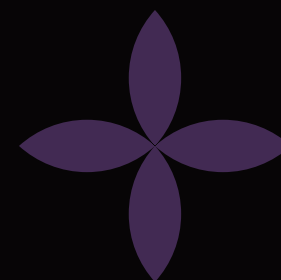
## Q2. What are LLMs?

Ans. LLMs stands for Large Language Models. They are a type of artificial intelligence model designed to understand and generate human language. Examples include ChatGPT, Google Gemini, Claude, and LLaMA.

### Simple Definition:

LLMs = AI systems trained on lots of text data to:

- Understand language
- Answer questions
- Write content (stories, code, emails, etc.)
- Translate languages
- Summarize text





## Q3. How LLMS work?

Ans. Large Language Models (LLMs) . They work by guessing the next word in a sentence, using what they've learned from patterns in the data.

### 1.Training on Data

Trained on huge text datasets (books, websites, articles).  
Learn grammar, facts, reasoning, and writing styles.

### 2.Tokenization

Text is broken into small pieces called tokens (like words or subwords).

### 3.Prediction

The model predicts the next token based on the previous ones.  
Example: “I like to drink hot...” → Model predicts: “coffee”

### 4.Transformers Architecture

LLMs like GPT use a neural network design called Transformers.  
Helps understand the context and meaning of each word in a sentence.

### 5.Fine-tuning(Optional)

Models can be fine-tuned for specific tasks (e.g., legal advice, customer service).





## Q4. What is Generative Ai?

Ans. Generative AI (short for Generative Artificial Intelligence) is a type of AI that can create new content — such as text, images, music, videos, code, and more — that resembles content made by humans.

### Examples of Generative AI

Here are some popular and real-world examples of Generative AI:

#### 1. Text Generation

ChatGPT – Writes essays, stories, answers questions.

#### 2. Image Generation

DALL·E – Creates images from text prompts.

#### 3. Music Generation

AIVA – Composes music using AI.

#### 4. Voice & Speech

Whisper (by OpenAI) – Converts speech to text

#### 5. Video Generation

Runway ML – Generates and edits videos using prompts.

#### 6. Code Generation

GitHub Copilot – Writes code suggestions using AI.



Q5. Write difference between Agentic Ai and Generative Ai ?

**Agentic AI:**

- ✓ Takes actions to achieve goals
- ✓ Works autonomously
- ✓ Example: AI that books a flight for you

**Generative AI:**

- ✓ Creates content like text, images, or music
- ✓ Needs input to generate output
- ✓ Example: ChatGPT writing a poem





## Q6. What is OpenAI's SDK? And how we use it?

OpenAI SDK (Software Development Kit) is a tool that helps developers easily connect and use OpenAI's models (like GPT-4, Whisper, DALL·E) in their own apps, websites, or systems.

It includes:

APIs

Libraries (like openai for Python, Node.js)

Tools to manage requests, responses, and files

### Example Use Cases:

Chatbots

AI writing tools

Voice-to-text apps (using Whisper)

Image generation (using DALL·E)







## Q7. Write Benefits of OpenAI's SDK?



### 1. Easy Integration

- Quickly connect OpenAI models (like GPT, Whisper, DALL·E) to your app or website.
- No need to build models from scratch.

### 2. Multi-language Support

- SDKs available for Python, Node.js, etc.
- Works across many platforms (web, mobile, backend).

### 3. Access to Powerful AI

- Use GPT-4, Whisper (speech-to-text), DALL·E (image generation), and more.
- Brings advanced AI features into your product easily.

### 4. Time-Saving

- Pre-built tools reduce development time.
- You focus on app logic, not ML model training.

### 5. Customizable

You can fine-tune outputs with parameters like temperature, max tokens, etc. Tailor AI responses to your specific use case.

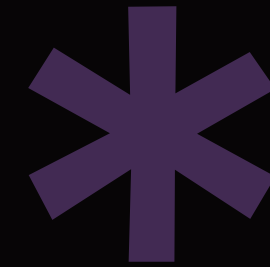
### 6. Scalable

Works well for both small apps and large-scale enterprise systems. Handle thousands of API calls reliably

### 7. Secure & Reliable

- OpenAI SDK handles secure API calls.
- Error handling and usage tracking features included.

# PRESENTATION CONCLUSION



Agentic AI, Generative AI, and LLMs represent key advancements in artificial intelligence.

LLMs are the foundation, trained to understand and generate language.

Generative AI builds on LLMs to create content like text, images, and music.

Agentic AI takes it a step further by acting autonomously to complete tasks and make decisions.

Tools like the OpenAI SDK make it easy for developers to bring these powerful capabilities into real-world applications.

In simple terms:

LLMs understand, Generative AI creates, and Agentic AI takes action.





**THANK YOU**

