**TEXT GENERATION :**

Text Generation: AI produces text that mimics human language.

How it Works: Uses deep learning models (like GPT) trained on large text datasets to predict and generate coherent text based on input prompts.

Applications: Content creation, chatbots, translation, summarization.

Benefits: Automates content, improves personalization, enhances accessibility.

Limitations: Lacks deep understanding, relies on training data, struggles with rare scenarios, has ethical concerns.

**Code Example:**

*from transformers import pipeline*

*generator = pipeline('text-generation', model='gpt-2')*

*text = generator("Once upon a time", max\_length=30, num\_return\_sequences=1)*

*print(text[0]['generated\_text'])*