

## Create a Artificial Intelligence Agent in Python to summarize text using AI Model TinyLlama (Part of Ollama)

What is an Artificial Intelligence Agent?

Artificial Intelligence Agent is a Programming loop. AI Agent takes a goal, thinks on that goal, perform tasks to achieve that goal, if goal is achieved it provides the solution else it again takes the goal, thinks and performs tasks to achieve that goal.

Following is the code to create AI Agent in python to summarize text using open source AI Model TinyLlama which is a part of AI Model Ollama.

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```
import ollama

class SummarizerAgent:

    def __init__(self, model="tinylama"):

        self.model = model

    def summarize(self, text):

        prompt = f"""

        Summarize the following text in a concise way:

        Text:

        {text}

        Summary:

        """

        response = ollama.chat(

            model=self.model,

            messages=[

                {"role": "user", "content": prompt}

            ]

        )

        return response['message']['content']
```

```
if __name__ == "__main__":  
    agent = SummarizerAgent()  
  
    text = """"  
    Artificial Intelligence (AI) is transforming industries by enabling machines  
    to learn from data, adapt to new inputs, and perform tasks that typically  
    require human intelligence. AI applications include natural language processing,  
    computer vision, robotics, and more.  
    """"  
  
    summary = agent.summarize(text)  
  
    print("\n--- Summary ---")  
    print(summary)
```

---

How to run the above code

Download Ollama from <https://ollama.com>

Step 1

Run the following command in Terminal of Pycharm

```
pip install ollama
```

Step 2: Pull TinyLlama Model

```
ollama pull tinyllama
```

Step 3

Write the above code in Pycharm

Step 4: Run the Agent

Run the following command in Terminal of Pycharm

```
python app.py
```

In the output write a long text and it will give you the summary of the long text.