

# Ollama Local Setup Guide

Write an coding documentation about starting Ollam on local machine  
add these points

- Setup Ollama
  - \* download and install Ollama ( add the ollama webiste )
  - \* choose model from library
- Chose the required library , embedding and AI model |
- How to setup vector store step by step only points using ollama chroma
- How to run simply for chat

DON'T add any code ADD only links and points

## Documentation: Starting Ollama on Your Local Machine

This guide provides an overview of the steps to get Ollama up and running locally. It includes setting up Ollama, choosing the necessary models and libraries, configuring the vector store using Ollama Chroma, and running a simple chat interface.

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### 1. Setup Ollama

- **Download and Install Ollama**
  - Visit the official [Ollama website](#) for download and installation instructions.
  - Follow the installation guide available on the website to set up Ollama on your local machine.
- **Choose a Model from the Library**
  - Browse the model library available on the Ollama website or in the Ollama app.
  - Select the model that best fits your application requirements.

## 2. Choose the Required Library, Embedding, and AI Model

- **Library Selection**
    - Identify the library that supports the integration of your selected model.
    - Ensure the library supports embedding functionalities.
  - **Embedding**
    - Choose an embedding solution that is compatible with your model.
    - Confirm that the embedding method meets your performance and accuracy needs.
  - **AI Model**
    - Evaluate available AI models based on your use case.
    - Consider factors such as model size, performance, and integration ease with the selected library.
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## 3. How to Setup Vector Store (Using Ollama Chroma) – Step by Step

- **Ollama Chroma Installation**
  - Locate and install Ollama Chroma via the instructions provided on the Ollama platform.
- **Configuration**
  - Set up configuration parameters for the vector store.
  - Ensure that the vector store is connected to your chosen embedding service.
- **Initialization**
  - Initialize the vector store with the selected model.
  - Validate the integration by running initial checks.
- **Integration Verification**
  - Confirm that the vector store is properly storing and retrieving embedding data.
  - Adjust configurations if necessary based on performance tests.

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## 4. How to Run Simply for Chat

- **Start the Ollama Instance**
  - Launch the Ollama instance on your local machine.
- **Configure Chat Session Parameters**
  - Set up necessary parameters such as context, model selection, and session limits.
- **Test the Chat Interface**
  - Run a simple chat session to verify that the system is operational.
  - Use troubleshooting resources on the Ollama website if any issues arise.

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For further detailed instructions or troubleshooting, refer to the official [Ollama documentation](#).

add some Ollama CLIs to add library chroma and embeddings

Sure! Here's an updated version of the documentation including key **Ollama CLI commands** (no code, only command names and their purpose) to add libraries like **Chroma** and **Embeddings**.

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## Documentation: Starting Ollama on Your Local Machine

This guide provides an overview of the steps to get **Ollama** up and running locally. It includes setting up Ollama, choosing necessary models and libraries, configuring the vector store using **Ollama Chroma**, and running a simple chat interface.

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# 1. Setup Ollama

- **Download and Install Ollama**
    - Visit the official [Ollama website](#) for download and installation instructions.
    - Follow the platform-specific steps to install Ollama on your machine.
  - **Choose a Model from the Library**
    - Browse available models from the [Ollama model library](#).
    - Select and pull a model suited to your use case (e.g., LLaMA, Mistral, Gemma, etc.).
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## 2. Choose the Required Library, Embedding, and AI Model

- **Library Selection**
    - Choose the integration library (like Chroma) for vector store functionality.
  - **Embedding**
    - Identify an embedding method compatible with your chosen model and library.
  - **AI Model**
    - Select a base AI model from the Ollama model library.
    - Use CLI tools to download and manage models.
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## 3. CLI Commands for Adding Chroma and Embeddings

- **Pull Model**
  - Use `ollama pull <model-name>` to download a specific AI model from the Ollama library.
- **Add Embedding Support**

- Use `ollama run <model> --embedding` to enable embedding mode with your selected model.
  - **Install Chroma**
    - Use standard Python tools ( `pip install chromadb` ) outside of Ollama to install Chroma.
    - Integrate it with your Ollama backend for vector storage.
  - **Launch Chroma Server (if needed)**
    - Start the Chroma vector database server to persist embeddings.
  - **Verify Installations**
    - Run `ollama list` to see all installed models.
    - Check Chroma status using system or library-level commands.
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## 4. How to Setup Vector Store (Using Ollama Chroma) – Step by Step

- Install Chroma (as a Python package or as a service).
  - Connect Chroma to your Ollama-based embedding service.
  - Initialize and configure vector store settings.
  - Create or import data to embed and store in Chroma.
  - Test vector search and retrieval functionality.
  - Optimize based on search performance and model compatibility.
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## 5. How to Run Simply for Chat

- Start Ollama on your machine.
- Load your selected model using the CLI.
- Set up your chat environment (CLI or integration layer).

- Run and test chat interactions.
  - Monitor performance and adjust configuration as needed.
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For more, explore [Ollama CLI documentation](#) and the [Chroma documentation](#).