

# Installation Guide

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## 1 Installation

This guide provides detailed instructions for setting up `code-agent` and its dependencies on your local machine.

### 1.1 1. Prerequisites

Before you begin, ensure you have the following installed:

- **Python:** Version 3.10 or newer.
- **Git:** For cloning the repository.
- **Ollama:** The agent relies on [Ollama](#) to run local language models. Please follow their instructions to install it on your system.

After installing Ollama, you must pull a model for the agent to use. We recommend starting with `llama3` or a similar instruction-tuned model.

```
ollama pull llama3
```

## 1.2 2. Cloning the Repository

Get the source code by cloning the repository from GitHub.

```
git clone https://github.com/your-username/code_agent.git
cd code_agent
```

## 1.3 3. Setting up the Environment and Installing Dependencies

We strongly recommend using `uv` for fast and reliable dependency management.

### 1.3.1 Using `uv` (Recommended)

1. **Create and activate a virtual environment:**

```
uv venv
source .venv/bin/activate
```

2. **Install the package:** To install the project with all core and development dependencies, run:

```
uv pip install -e .[dev]
```

This installs the package in “editable” mode, which means that changes you make to the source code will be immediately available without needing to reinstall.

### 1.3.2 Using `pip`

If you prefer to use `pip`, you can follow these steps:

1. **Create and activate a virtual environment:**

```
python -m venv .venv
source .venv/bin/activate
```

2. **Install the package:**

```
pip install -e .[dev]
```

## 1.4 4. Configuration

The agent's behavior is controlled by the `code_agent/config/llm_config.json` file. Before running the agent for the first time, ensure the `ollama_model` specified in this file matches the model you pulled with Ollama.

Example `llm_config.json`:

```
{  
  "ollama_model": "llama3",  
  "temperature": 0.7,  
  "ollama_host": "http://localhost:11434"  
}
```

## 1.5 5. Verifying the Installation

You can verify that the installation was successful by running the interactive chat agent.

```
code-agent chat
```

If the agent starts up and you see the “Agent ready!” message, your installation is complete.