**Installation Guide for Rasa Open Source**

**Introduction**

Rasa Open Source is a powerful framework for building conversational AI assistants. It allows the developers to create sophisticated chatbots and virtual assistants that can understand natural language and hold meaningful conversations with users. This installation guide will walk you through the process of setting up Rasa Open Source on your machine.

**Pre-requisites**

Before you begin, make sure you have the following prerequisites installed on your system:

* Python (version,s 3.6, 3.7, 3.8, or 3.9)
* pip (Python package installer)
* Virtual environment tool (such as virtualenv or conda)

**Step 1: Create a Virtual Environment**

It's always a good practice to work within a virtual environment to avoid conflicts with system-wide Python packages. Follow these steps to create and activate a virtual environment:

1. Open a terminal or command prompt.
2. Navigate to your desired project directory.
3. Run the following command to create a new virtual environment named **rasa\_env**:

**python3 -m venv rasa\_env**

1. Activate the virtual environment:

**rasa\_env\Scripts\activate**

**Step 2: Install Rasa Open Source**

Once you have activated your virtual environment, you can proceed to install Rasa Open Source:

1. Make sure your virtual environment is active.
2. Run the following command to install Rasa Open Source and its dependencies:

**pip install rasa**

This command will install the latest stable version of Rasa Open Source.

**Step 3: Verify Installation**

After the installation is complete, you can verify that Rasa Open Source has been installed correctly by checking its version:

**rasa --version**

This command should display the version number of Rasa Open Source installed on your system.

**Step 4: Install Additional Dependencies (Optional)**

Depending on your specific use case, you may need to install additional dependencies for Rasa Open Source. For example, if you plan to use the Spacy language model for natural language understanding, you can install it using the following command:

pip install rasa[spacy]

You can also install other optional dependencies as needed.

**Conclusion**

successfully installed Rasa Open Source on machine. we can now start building and training the conversational AI assistants using the power of Rasa.

For more information on getting started with Rasa, refer to the official documentation and tutorials available on the Rasa website.