

# Python Setup Guide



"""1.Install python latest version.

ubuntu

-> sudo apt install python3 -y && sudo apt install python3-pip -y && sudo apt install python3-venv -y

windows

1. Download Python Installer

Go to the official Python Downloads page.Click on the Download Python button. This will download the latest version of Python for Windows.

2. Run the Installer

Once the installer is downloaded, run the installer.

Important: Check the box that says "Add Python to PATH" before clicking "Install Now." This will make Python and pip accessible from the command prompt.

Click Install Now and the installation will proceed.

3. Verify Python Installation

After the installation is complete, you can verify Python and pip installation:

1.Open Command Prompt (press Win + R, type cmd, and press Enter).

2.Type the following command to check Python version:

-> python --version

Or, if you have multiple versions installed, you might need to use:

-> python3 --version

2.Open command prompt used cd command to change the project directory

-> cd {project\_directory}

3 Create virtual environment

Ubuntu:type the below command to create virtual environment

-> source myenv/bin/activate

Windows:type the below command to create virtual environment

-> myenv\Scripts\activate

4.Install required libraries for executing python application.

-> pip install -r requirment.txt

5.Run the application by using below command.

-> python app.py """ ---> make dockument



Here's the document based on the steps you've provided:

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## Setting Up Python Environment for Your Project

This guide walks you through installing Python, setting up a virtual environment, and running your Python application on both Ubuntu and Windows systems.

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### Step 1: Install the Latest Version of Python

#### On Ubuntu:

1. Open the terminal.
2. Run the following commands to install Python, pip (Python's package installer), and python3-venv (for virtual environments):

```
bash

sudo apt install python3 -y
sudo apt install python3-pip -y
sudo apt install python3-venv -y
```

#### On Windows:

1. **Download the Python Installer:**
  - Go to the [official Python Downloads page](#).
  - Click on the "Download Python" button to download the latest version for Windows.
2. **Run the Installer:**
  - Once the installer is downloaded, run it.
  - **Important:** Ensure to check the box that says "Add Python to PATH" before clicking the "Install Now" button. This ensures Python and pip are accessible from the command prompt.
3. **Verify Python Installation:** After the installation is complete, open the Command Prompt (press `Win + R`, type `cmd`, and press Enter) and run the following command to check the Python version:

```
bash

python --version
```

- If you have multiple versions of Python installed, you might need to run:

```
bash

python3 --version
```

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## Step 2: Change to Project Directory

1. Open a terminal (or Command Prompt on Windows).
2. Use the `cd` command to navigate to the directory where your project is located. Example:

```
bash

cd {project_directory}
```

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## Step 3: Create a Virtual Environment

### On Ubuntu:

1. Run the following command to create a virtual environment in the project directory:

```
bash

python3 -m venv myenv
```

2. Activate the virtual environment:

```
bash

source myenv/bin/activate
```

### On Windows:

1. Run the following command to create a virtual environment:

```
bash

python -m venv myenv
```

2. Activate the virtual environment:

```
bash

myenv\Scripts\activate
```

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## Step 4: Install Required Libraries

1. Inside the virtual environment, install all the necessary Python libraries by running:

```
bash

pip install -r requirements.txt
```

This will install the dependencies listed in the `requirements.txt` file for your project.

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## Step 5: Run the Application

1. To run your Python application, use the following command:

```
bash

python app.py
```

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## Conclusion

You've successfully installed Python, set up a virtual environment, and run your application. Happy coding!

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Let me know if you'd like to add or change anything!