

✔ Step 1: Install Python

1. Go to <https://www.python.org/downloads/>
 2. Download the latest version for your OS.
 3. **IMPORTANT:** During installation, check the box "**Add Python to PATH**".
 4. Complete the installation.
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✔ Step 2: Install Visual Studio Code (VS Code)

1. Visit <https://code.visualstudio.com/>
 2. Download and install VS Code for your OS.
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✔ Step 3: Install Python Extension in VS Code

1. Open VS Code.
 2. Go to **Extensions (Ctrl+Shift+X)**.
 3. Search for `Python` by Microsoft and click **Install**.
 4. Also install the `Jupyter` extension by Microsoft.
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✔ Step 4: Open Terminal in VS Code

1. Open VS Code.
 2. Go to **Terminal > New Terminal** (or press `Ctrl+``).
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✔ Step 5: Install Jupyter via pip

In the terminal, run:

```
pip install notebook
```

✔ Optional: Install additional Jupyter tools (for notebooks inside VS Code):

```
pip install jupyterlab
```

✔ Step 6: Create/Open a `.ipynb` file

1. Inside VS Code, click on **File > New File**.
 2. Save it as `example.ipynb`.
 3. VS Code will automatically detect it as a Jupyter notebook.
 4. You can now run code cells inside VS Code!
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✔ Step 7: Run Jupyter Notebook in Browser (Optional)

If you want to run notebooks in the browser instead of VS Code:

```
jupyter notebook
```

This will open the notebook in your default web browser.

1. PyCharm Community Edition

- **Download:** <https://www.jetbrains.com/pycharm/download/>
- **Installation Guide:** <https://www.jetbrains.com/help/pycharm/installation-guide.html>

PyCharm Community Edition is a free, open-source IDE tailored for Python development. It supports essential features like code completion, debugging, and version control integration. Note that advanced web development tools are available in the Professional Edition. [Softonic](#)

2. Cursor IDE

- **Download:** <https://www.cursor.com/downloads>Cursor - The AI Code Editor+1HackerNoon+1

Cursor is an AI-powered code editor designed to enhance productivity. It's compatible with Windows, macOS, and Linux. While it's a standalone editor, you can integrate it into your workflow alongside PyCharm.

3. Firebase Studio

- **Access:** <https://firebase.studio/>

Firebase Studio is a cloud-based development environment by Google, enabling you to build full-stack AI applications directly from your browser. It integrates seamlessly with Firebase services like Firestore, Authentication, and Hosting.

4. Windsurf Plugin for PyCharm

- **Plugin Page:** <https://plugins.jetbrains.com/plugin/20540-windsurf-plugin-formerly-codeium-for-python-js-java-go-->

Installation Steps in PyCharm:

1. Open PyCharm.
2. Navigate to **Settings** (or **Preferences** on macOS).
3. Select **Plugins** from the sidebar.
4. Click on the **Marketplace** tab.
5. Search for **Windsurf**.
6. Click **Install** and restart PyCharm if prompted.

Windsurf, formerly known as Codeium, provides AI-driven code completion and suggestions, enhancing your coding efficiency within PyCharm.