

Installation Instructions

Python Installation

Python and machine learning

1. Open your web browser and go to the official Python downloads page:

<https://www.python.org/downloads/>



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2. Click the yellow "Download Python 3.x.x" button to download the Windows installer. For macOS or Linux, select the appropriate link shown below the main button.

 **Note:** Python 3 is the current and actively maintained version. Always download Python 3 unless your course specifically requires Python 2.


3. If your browser asks whether to "Save" or "Open" the file, choose Save. The file will be downloaded to your Downloads folder.

4. Once the download is complete, locate the installer file (e.g., python-3.x.x-amd64.exe) and double-click it to start the installation.

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5. In the installer window, make sure to tick the checkbox labelled "Add python.exe to PATH" at the bottom of the screen — this step is critical. Then click "Install Now":

 **Note:** Adding Python to PATH allows you to run Python from any folder in the Command Prompt by simply typing "python". Without this, you would need to type the full path every time.

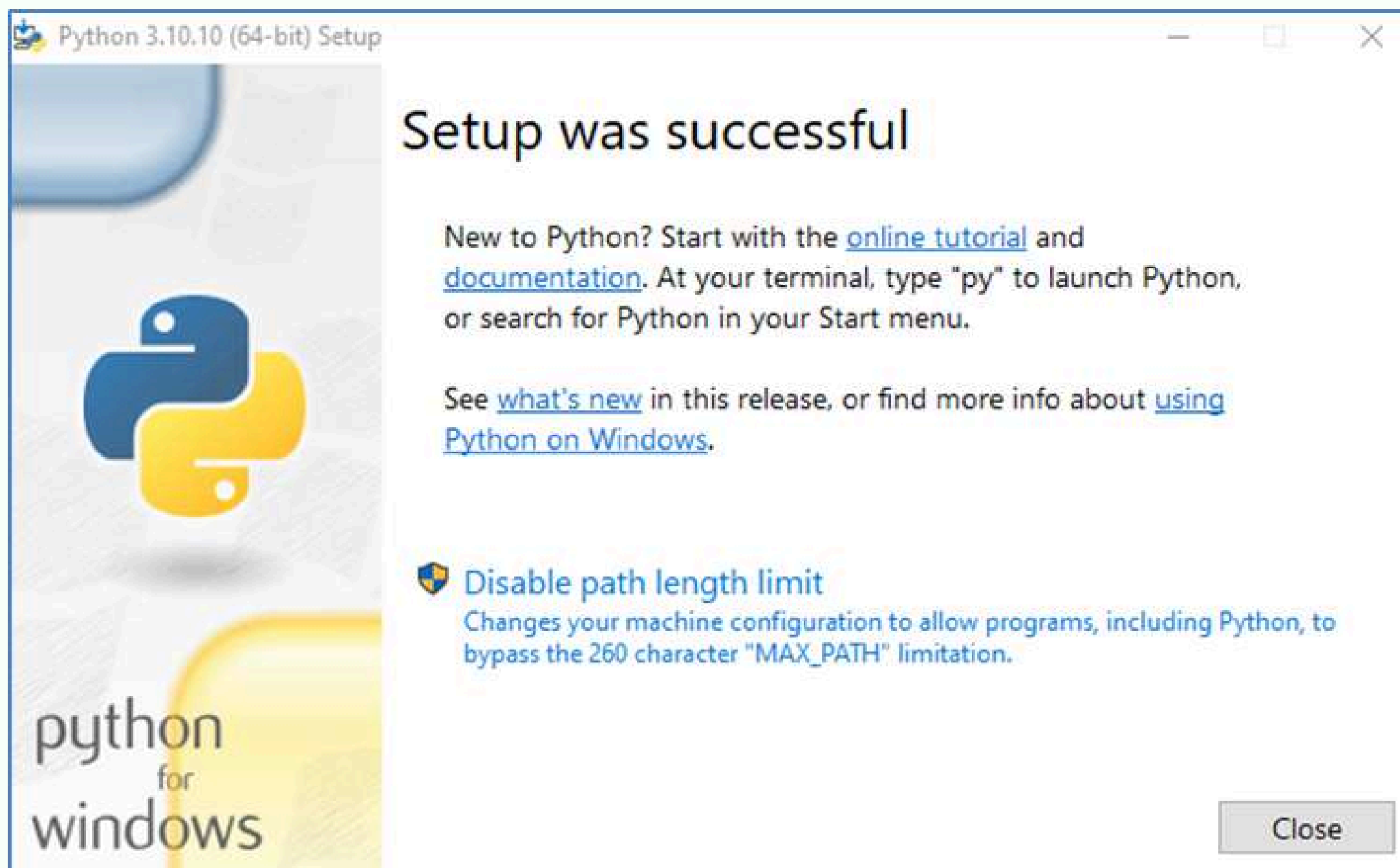


6. If a User Account Control (UAC) dialog appears asking whether you want to allow this app to make changes to your device, click Yes.

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7. Wait for the installation to complete. When the "Setup was successful" screen appears, click Close. Python is now installed on your computer!



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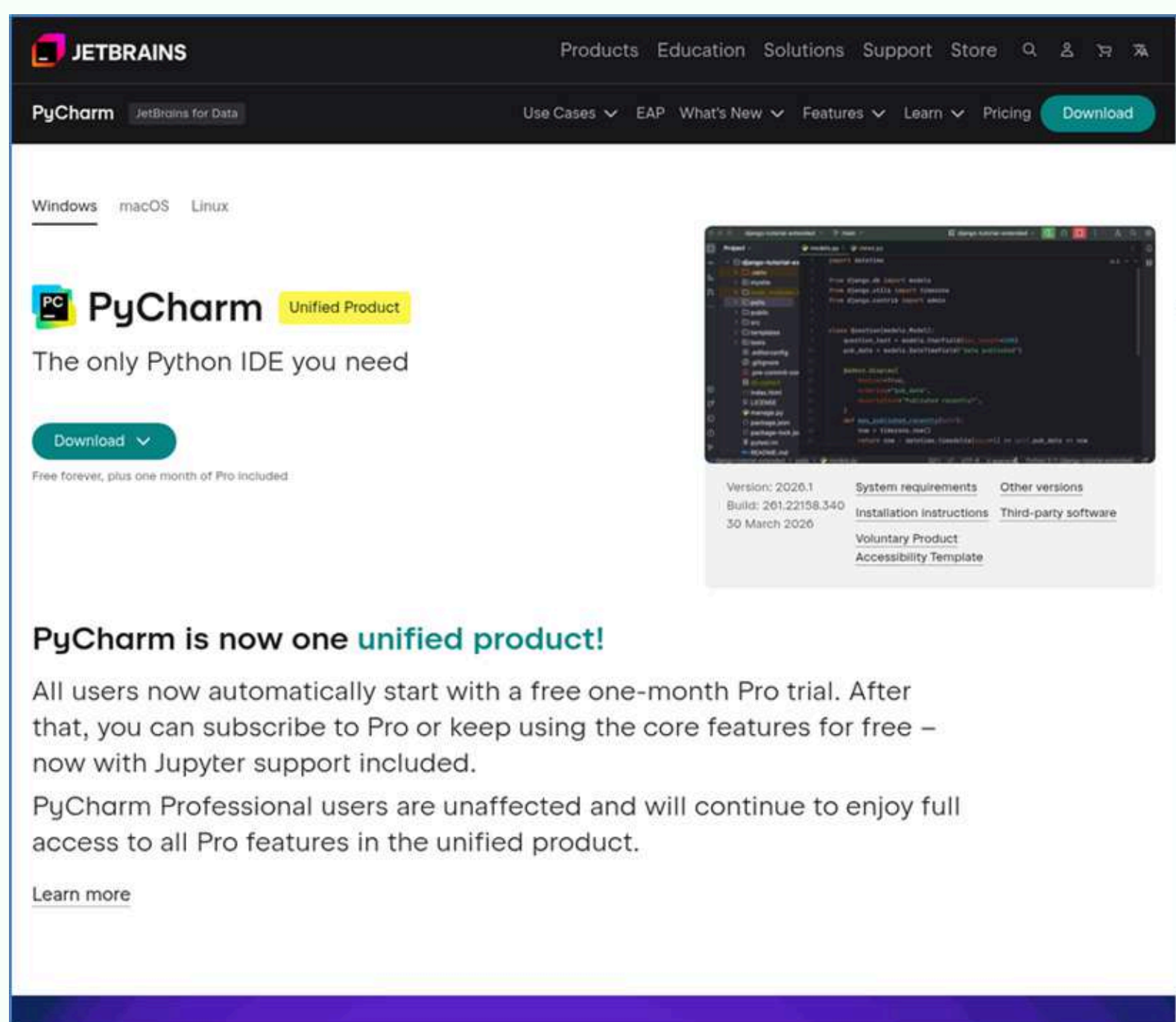
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Installing PyCharm

1. Open your web browser and go to the official PyCharm download page:
<https://www.jetbrains.com/pycharm/download/>

2. At the top of the download section, select your operating system by clicking the "Windows", "macOS", or "Linux" tab.

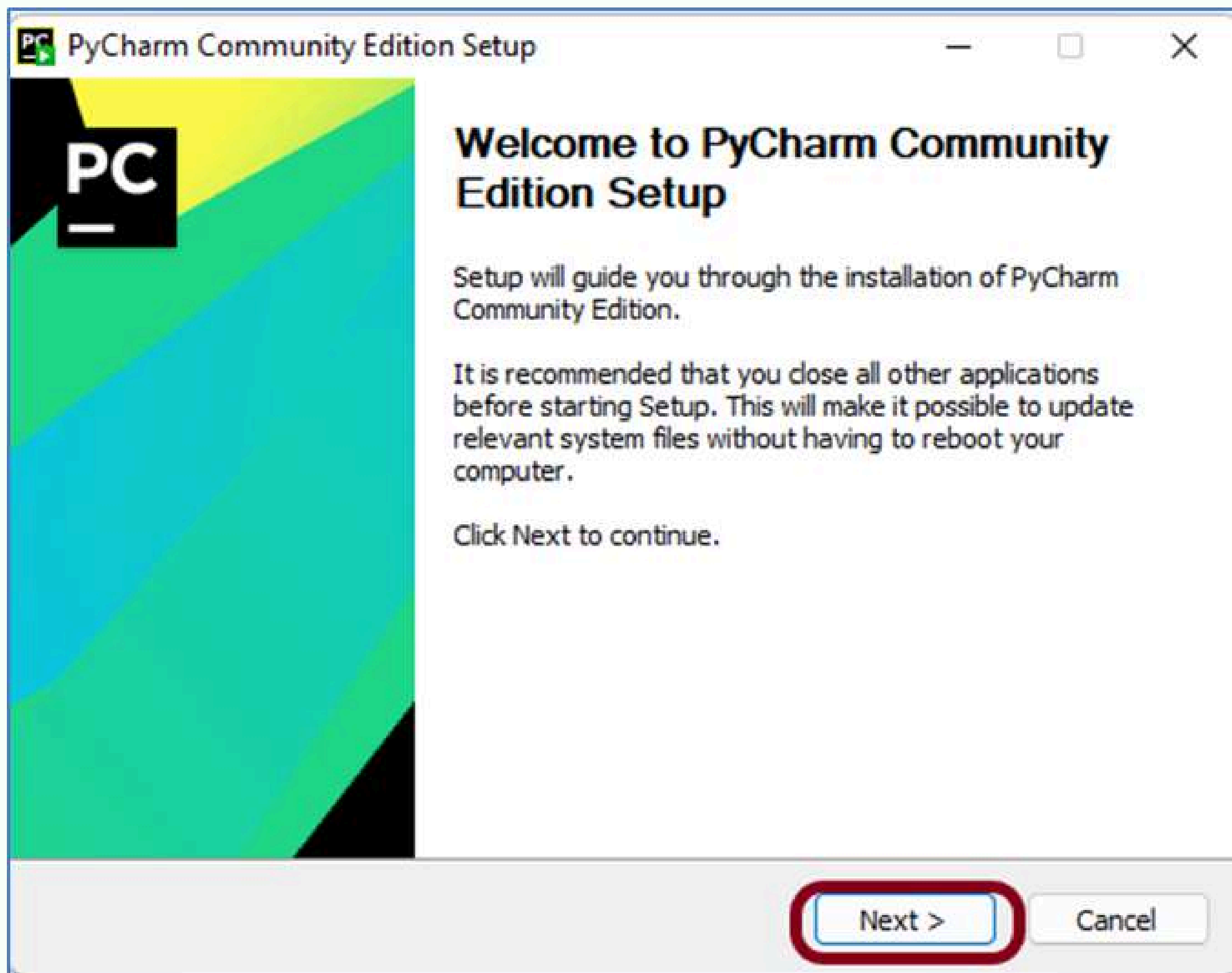
3. Scroll down to find the "PyCharm Community Edition" section and click the "Download" button. This edition is completely free and open-source.



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4. Once the download is complete, run the installer file. The Welcome screen will appear — click "Next" to continue:

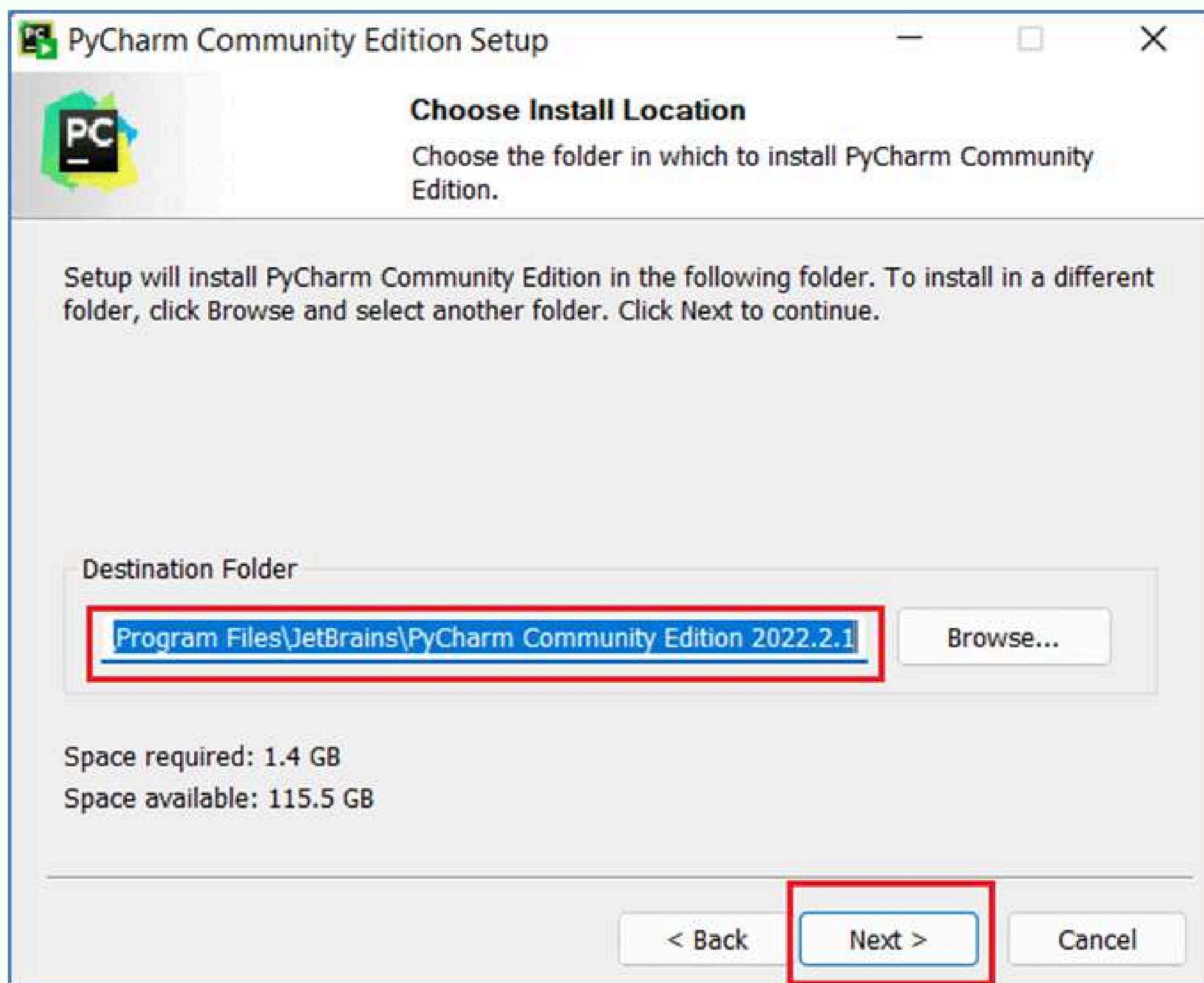


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5. On the Choose Install Location screen, you can keep the default folder or click "Browse" to select a different location on your disk. Click "Next" to continue:

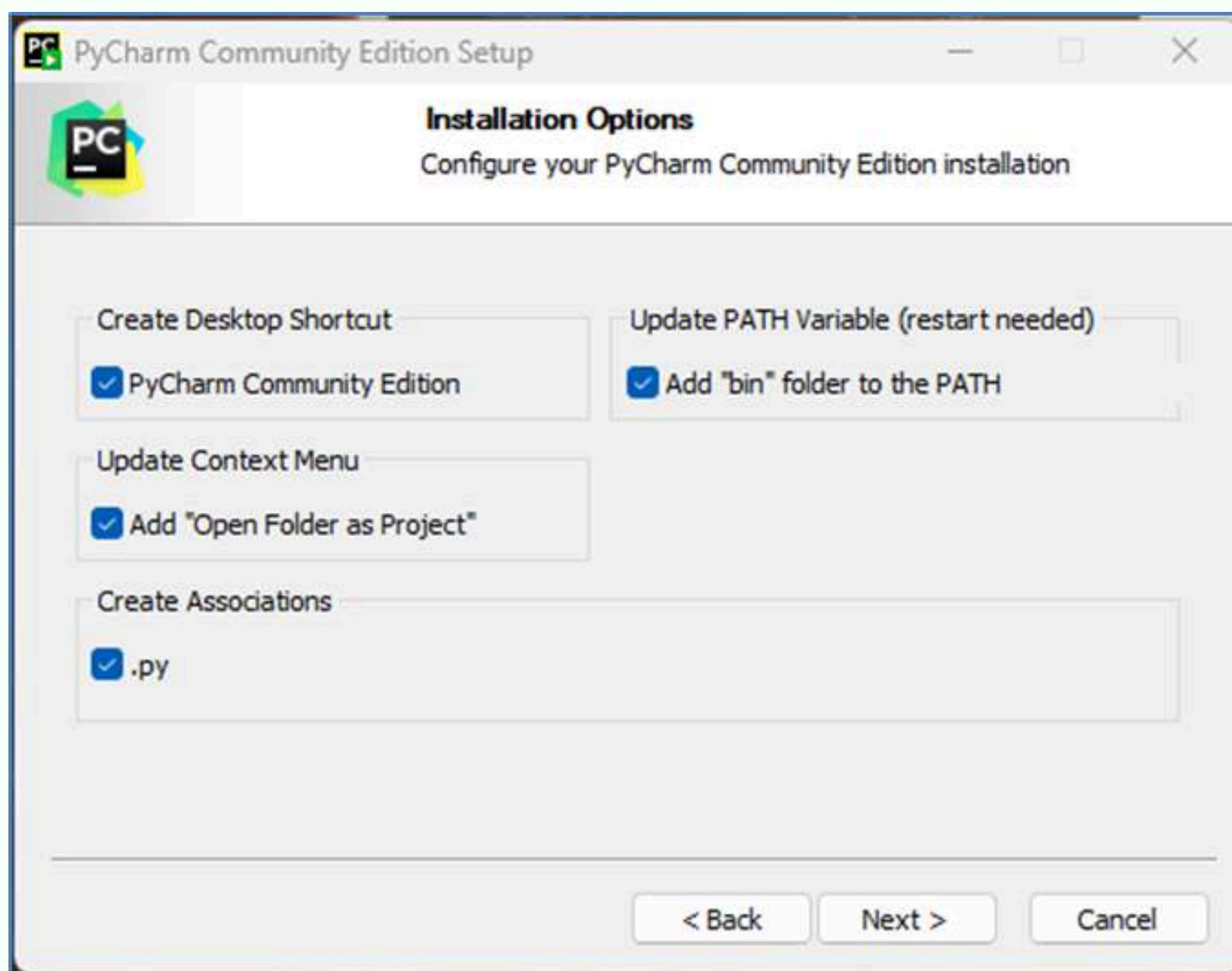


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6. On the Installation Options screen, configure the following settings as needed, then click Next to proceed and complete the installation:

- Create Desktop Shortcut — adds a PyCharm icon to your Desktop.
- Add "bin" folder to the PATH — allows launching PyCharm from the command line.
- Update Context Menu — adds an 'Open Folder as Project' option in Explorer.
- Create Associations — associates .py files with PyCharm.



Follow the remaining prompts to complete the installation. When finished, you can launch PyCharm directly from the installer or from the Desktop shortcut you created.

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