**Python Installation**

1. **Download**: Get installer from [python.org/downloads](https://www.python.org/downloads/)
2. **Install**:
   * Run installer
   * ✔️ Check "Add Python to PATH" (important!)
   * Click "Install Now"
3. **Verify**:

cmd

Copy

Download

python --version

1. **If PATH fails**:
   * Add manually to System Variables:

text

Copy

Download

C:\Users\<YourUsername>\AppData\Local\Programs\Python\Python312

C:\Users\<YourUsername>\AppData\Local\Programs\Python\Python312\Scripts

**Git Installation**

1. **Download**: Get installer from [git-scm.com/downloads](https://git-scm.com/downloads)
2. **Install**:
   * Run installer
   * Select "Use Git from Windows Command Prompt" (adds to PATH)
   * Complete installation
3. **Verify**:

cmd

Copy

Download

git --version

1. **If PATH fails**:
   * Add manually to System Variables:

text

Copy

Download

C:\Program Files\Git\cmd

**Key Notes:**

**Exact Steps to Install FFmpeg on Windows (2024)**

1. **Download the Correct FFmpeg:**
   * Go to: [**https://www.gyan.dev/ffmpeg/builds/**](https://www.gyan.dev/ffmpeg/builds/)
   * Download: **ffmpeg-release-essentials.zip** (88 MB).
2. **Extract the ZIP:**
   * Right-click the downloaded file → **"Extract All"** → Choose **C:\ffmpeg**.
3. **Add FFmpeg to PATH:**
   * Press **Win + S** → Type **"Environment Variables"** → Open it.
   * Under **"System variables"**, select **"Path"** → Click **"Edit"** → **"New"**.
   * Paste: **C:\ffmpeg\bin** → Click **OK** → **OK** → **OK**.
4. **Verify Installation:**
   * Open **Command Prompt** (Win + R → type cmd → Enter).
   * Type:

bash

Copy

Download

ffmpeg -version

* + If you see version info (e.g., ffmpeg version 7.1.1), **success!** ✅

**Here's a simple step-by-step guide to manually download and install Tesseract OCR on Windows:**

**Step 1: Download Tesseract OCR**

1. **Go to the official Tesseract OCR for Windows page**:  
   👉 <https://github.com/UB-Mannheim/tesseract/wiki>
2. **Download the installer** (choose the latest version, e.g., tesseract-ocr-w64-setup-5.3.1.20230401.exe):
   * Click the link under **"Tesseract installer for Windows"**.
   * Save the .exe file to your **Downloads** folder.

**Step 2: Install Tesseract OCR**

1. **Run the installer**:
   * Locate the downloaded .exe file (e.g., in Downloads).
   * Double-click it → Click **Yes** if prompted by UAC.
2. **Follow the setup wizard**:
   * Keep the default settings (install to C:\Program Files\Tesseract-OCR).
   * Check **"Add Tesseract to your system PATH"** during installation (critical!).
   * Click **Install** → Wait for completion → Click **Finish**.

**Step 3: Verify Installation**

1. **Open PowerShell** (press Win + R, type powershell, hit Enter).
2. **Check the version**:

powershell

Copy

Download

tesseract --version

✅ If you see the version (e.g., tesseract 5.3.1), it worked!