## **1. Download & Install Miniconda**

### **Windows**

1. Go to the Miniconda installer page on the Anaconda website and download the **64‑bit Windows** Miniconda installer (.exe) for Python 3.12. [Anaconda](https://www.anaconda.com/docs/getting-started/miniconda/main?utm_source=chatgpt.com)
2. Double‑click the downloaded .exe file. In the installer wizard, select “Just Me” (no admin rights needed), accept the license, and click through the defaults. [Conda Documentation](https://docs.conda.io/projects/conda/en/stable/user-guide/install/windows.html?utm_source=chatgpt.com)
3. On the “Advanced Options” page, optionally check “Add Miniconda to my PATH environment variable” (makes conda commands available everywhere), then click **Install**. [Conda Documentation](https://docs.conda.io/projects/conda/en/stable/user-guide/install/windows.html?utm_source=chatgpt.com)

### **macOS**

1. Visit the Miniconda installer page and download the macOS 64‑bit bash installer (.sh) for Python 3.12. [Conda Documentation](https://docs.conda.io/projects/conda/en/stable/user-guide/install/macos.html?utm_source=chatgpt.com)
2. Open the Termina**l** app (Finder -> Applications -> Utilities -> Terminal).  
   In Terminal, navigate to your Downloads folder and run:  
   bash Miniconda3-latest-MacOSX-x86\_64.sh
3. Accept the license and defaults when prompted. [Conda Documentation](https://docs.conda.io/projects/conda/en/stable/user-guide/install/macos.html?utm_source=chatgpt.com)
4. Close and re‑open Terminal to ensure conda is on your PATH. [Conda Documentation](https://docs.conda.io/projects/conda/en/stable/user-guide/install/macos.html?utm_source=chatgpt.com)

## **2. Open a Miniconda‑Powered Terminal**

### **Windows:**

From the Start menu, launch Anaconda Prompt (installed with Miniconda). This opens a Command Prompt with conda initialized. [Conda Documentation](https://docs.conda.io/projects/conda/en/stable/user-guide/install/windows.html?utm_source=chatgpt.com)

### **macOS:**

Open Terminal. Conda should be initialized automatically; if not, run:  
conda init zsh

then close and re-open Terminal. [Conda Documentation](https://docs.conda.io/projects/conda/en/stable/user-guide/install/macos.html?utm_source=chatgpt.com)

\*Note that in future steps I use the term terminal to mean either the macOS terminal or the miniconda terminal on a windows machine

## **3. Create & Activate a Python 3.12 Environment**

In your terminal, run:  
conda create -n de\_ident\_test python=3.12

* This makes a new environment named test\_mp with Python 3.12 installed. [Conda Documentation](https://docs.conda.io/projects/conda/en/latest/user-guide/tasks/manage-python.html?utm_source=chatgpt.com)

Activate it:  
conda activate de\_ident\_test

* You’ll see (de\_ident\_test) at your prompt, confirming you’re inside that environment. [Conda Documentation](https://docs.conda.io/projects/conda/en/latest/user-guide/tasks/manage-python.html?utm_source=chatgpt.com)

## **4. Install MediaPipe & Fetch Landmark Models/Test Script**

With test\_mp active, install MediaPipe via pip:  
python -m pip install mediapipe

* This pulls in the core library supporting face, pose, and hand solutions to your conda test environment. [PyPI](https://pypi.org/project/mediapipe/?utm_source=chatgpt.com)

Model files for the packaged inside MediaPipe’s .task bundles. I’ve already extracted the ones needed for this demonstration in the google directory where this document is found. Just download the directory contents to a directory on your machine.

## **5. Run The Test Script**

In your terminal, navigate to the directory on your machine where you downloaded the directory (e.g., something like cd /Downloads/your\_downloaded\_directory\_path or cd C:\Downloads\your\_downloaded\_directory\_path)

Once there, type python test\_de\_ident.py

You should see a new subdirectory called “OutputVideos” with the processed video inside once the script has run.

## **6. Assess Output Compared To Sample**

If the output videos (file extension .avi) don’t open, you may need a video viewer with more extensive codec availability than whatever is on your machine. For that, a good out of the box option is the VLC video player. Just download the version for your machine. [VLC](https://www.videolan.org/vlc/)

Compare the contents of the versions of “Processed\_20250414\_161004.avi” found in “OutputVideos” (i.e., the one your machine just made) and the one in “Processed\_for\_comparison” (i.e., the one I did earlier as a properly-processed example). If they match, everything worked!