# **📋 Cheat Sheet (for MacBook Pro M3 Pro 32GB — 2024)**

# **🛠️ Part 1: Check Pre-installed Tools**

In Terminal, check:

bash

CopyEdit

python3 --version

git --version

* If python3 shows something like 3.9.x or 3.10.x, **you should still install Python 3.12** with Homebrew for compatibility.
* If Git is missing, Homebrew will install it easily.

✅ Developer Tools might pop up asking: **"Install command line developer tools?"** Say **Yes**.  
 (It will install Git for you automatically.)

# **🛠️ Part 2: Homebrew Install (if needed)**

bash

CopyEdit

/bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"

✅ Even 2024 MacBooks don't ship with Homebrew.

# **🛠️ Part 3: Install Software**

After Homebrew is installed:

bash

CopyEdit

brew install git python

brew install --cask visual-studio-code

brew install ollama

✅ No change here.

✅ Your M3 Pro will handle all these installs **very quickly** (~2–5 minutes per install).

# **🛠️ Part 4: Project Setup**

As before:

| **Step** | **Command** |
| --- | --- |
| Move to project folder | cd your-folder |
| Install Python packages | pip3 install -r requirements.txt |
| Run Ollama | ollama run llama3 |
| Run your script | python3 extract\_medical\_info\_local.py |

✅ Terminal will be fast because M3 Pro CPUs are extremely good at heavy I/O.

# **🧠 Special Reminder for M3 Pro**

* **Unified memory 32GB** is shared between CPU and GPU automatically —  
   You **can load models** like Llama 3 8B (quantized) easily.
* **No GPU setup needed** — Apple Metal acceleration happens automatically.
* **Python3 from Homebrew** will install under /opt/homebrew/bin/python3 —  
   make sure you are running that and not the old macOS pre-installed one.

# **✨ Updated Summary for You**

| **Component** | **Action Needed?** |
| --- | --- |
| Homebrew | ✅ Install manually |
| Git | ✅ May auto-install via Developer Tools popup |
| Python 3 (latest) | ✅ Install via Homebrew (brew install python) |
| VS Code (optional) | ✅ Install via Homebrew (brew install --cask visual-studio-code) |
| Ollama | ✅ Install via Homebrew (brew install ollama) |
| Project files | ✅ Clone repo or unzip |
| Python packages | ✅ pip3 install -r requirements.txt |
| Run project | ✅ python3 extract\_medical\_info\_local.py |

# **📢 Final Important Tip for M3 Pro MacBook**

Always use:

bash

CopyEdit

python3

pip3

(✅ **NOT** python and pip — because those refer to the old system Python.)

# **🚀 You are 100% prepared!**

## **Pasteable Step-by-Step (in Terminal)**

bash

CopyEdit

# Install Homebrew (if missing)

if ! command -v brew &> /dev/null; then

/bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"

fi

# Update Homebrew

brew update

# Install Git and Python

brew install git python

# Install Visual Studio Code

brew install --cask visual-studio-code

# Install Ollama

brew install ollama

# Check installed versions

git --version

python3 --version

pip3 --version

ollama --version

✅ This installs everything in order and shows versions at the end.

# **✅ After this script is done:**

You simply:

bash

CopyEdit

cd your-project-folder

pip3 install -r requirements.txt

ollama run llama3 # Download model

python3 extract\_medical\_info\_local.py

✅ Project working.