

Automation Category	Python Packages
1. Web Scraping	requests, BeautifulSoup, Selenium, Scrapy, Playwright
2. File Management	os, shutil, pathlib, watchdog
3. Email Automation	smtplib, imaplib, email, yagmail
4. Data Cleaning	pandas, numpy, openpyxl, pyjanitor
5. Data Analysis & Reporting	pandas, numpy, matplotlib, seaborn, plotly
6. Excel/Spreadsheet Automation	openpyxl, xlrd, pandas, gspread, pyxlsb
7. PDF Processing	PyPDF2, pdfminer.six, pdfplumber, reportlab
8. Image Processing	Pillow, opencv-python, scikit-image, imageio
9. Text Extraction (OCR)	pytesseract, easyocr, ocrmypdf
10. Browser Automation	Selenium, Playwright, Pyppeteer, Helium
11. APIs and Webhooks	requests, httpx, flask, fastapi
12. Chatbot/Assistant	ChatterBot, Rasa, transformers, Langchain
13. Task Scheduling	schedule, APScheduler, croniter, celery
14. GUI Automation	pyautogui, pynput, keyboard, pywinauto
15. Natural Language Processing	nltk, spaCy, transformers, gensim, textblob
16. Speech Recognition	speechrecognition, whisper, pyaudio, vosk
17. Voice Assistant Tasks	pyttsx3, speechrecognition, whisper, openai
18. Database Automation	sqlite3, SQLAlchemy, psycopg2, pymysql, pandas

<b>19. Monitoring &amp; Alerting</b>	<b>psutil, prometheus client, watchdog, smtplib</b>
<b>20. Cloud Automation</b>	<b>boto3 (AWS), google-cloud-*, azure-*, terraform-exec</b>
<b>21. Social Media Automation</b>	<b>tweepy (Twitter), instabot, facebook-sdk, pywhatkit</b>
<b>22. Slack/Discord Bots</b>	<b>slack_sdk, discord.py, slack_bolt</b>
<b>23. PDF/Doc Report Generation</b>	<b>reportlab, docxtpl, pdfkit, weasyprint, Jinja2</b>
<b>24. CI/CD Tasks</b>	<b>subprocess, gitpython, os, Docker SDK</b>
<b>25. Testing Automation</b>	<b>unittest, pytest, tox, selenium, robotframework</b>
<b>26. IoT Automation</b>	<b>gpiozero, paho-mqtt, pyserial, Adafruit libraries</b>
<b>27. Home Automation</b>	<b>Home Assistant, openHAB, python-openzwave, pyHS100</b>
<b>28. Document Conversion</b>	<b>docx2pdf, pandoc, pdf2image, pypandoc</b>
<b>29. Image/Video Processing</b>	<b>opencv-python, moviepy, ffmpeg-python, imageio</b>
<b>30. Automation with AI</b>	<b>openai, transformers, langchain, llama-index, autogen</b>
<b>31. Project Management Tools (Jira, Trello)</b>	<b>jira, py-trello, asana, monday</b>
<b>32. Time Tracking &amp; Logging</b>	<b>time, datetime, schedule, pytz</b>
<b>33. Financial Data Automation</b>	<b>yfinance, alpaca-trade-api, ccxt, pandas_datareader</b>