

Jarvis Feature Documentation with Prompts

Voice-Controlled Commands

Prompt Example: [Jarvis, open YouTube](#)

Allows the user to control apps using voice commands. The assistant uses fuzzy matching to detect and execute commands such as opening websites or apps. Integrated with ``pyautogui``, ``pynput``, and ``pywin32`` for controlling system-level operations.

Web Search Integration

Prompt Example: [Jarvis, search weather in Lahore](#)

Performs real-time DuckDuckGo web searches and provides summarized information. Uses ``duckduckgo-search`` and ``readability-lxml`` to retrieve and clean results.

Text-to-Speech and Speech Recognition

Prompt Example: [Jarvis, what time is it?](#)

The assistant listens to the voice command using Silero STT and responds using the built-in voice using PyTTSx3 or gTTS. Voice input/output is fully natural and conversational.

Custom Assistant Personality

Prompt Example: [Hey Jarvis, introduce yourself](#)

Jarvis responds with a predefined personality, greeting the user, and referencing their name. This can be expanded with LangChain prompts and memory modules.

Face UI with Animation

Prompt Example: [Jarvis \(on startup\)](#)

Launches a face UI using Pygame, displays animated visual effects or videos, and mimics speech using waveform bars. Uses ``pygame``, ``tkvideo``, and ``opencv-python`` optionally.

Download Manager

Prompt Example: [Jarvis, download this PDF](#)

Controls file downloads (PDFs, etc.) through voice instructions. The file path is handled and saved using automation. Integrates well in an educational or Urdu novel app environment.

Smart Keyboard & Mouse Automation

Prompt Example: [Jarvis, click on the search bar](#)

Through voice command, moves cursor, types, or clicks on UI elements using ``pyautogui``. Great for hands-free operations or for disabled users.

Noise Cancellation & Background Filtering

Prompt Example: [\(Automatically enabled\)](#)

Enhances voice recognition accuracy by filtering out background noise. Done using the ``livekit-plugins-noise-cancellation`` plugin.

PDF and Image Reading

[Prompt Example: Jarvis, read this image/PDF](#)

Extracts text from PDFs using ``PyPDF2`` or images using ``pytesseract`` and reads them aloud. Useful for blind users or academic tasks.