

# SAUMYADIP JANA

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Final-year Computer Science student with strong skills in Python, Linux Automation, and Data Processing.

## EDUCATION

**Omdoyal Group of Institutions**, Howrah, India

*Bachelor of Technology in Computer Science and Engineering (2022 – 2026)*

*Overall CGPA till 6th sem: 7.5*

## PROJECTS

**CAI – Command-line AI Assistant** | *Python, Rich, Google Gemini API*

GitHub: [github.com/dip-bash/cai](https://github.com/dip-bash/cai) | website: <https://dip-bash.github.io/cai/>

- Built a CLI tool that explains man pages, analyzes command output, and suggests fixes.
- Designed full architecture: argument parser, API layer, prompt engine, and safe command-processing flow.
- Replaced manual scanning of long man pages with direct answers in 3–8 seconds.
- Added an error-diagnosis feature that interprets the last failed command and proposes corrections.
- Structured for modular AI backends and daily practical use.

**DeskLine – Terminal Desktop Environment Wrapper** | *Python, Bash, tmux*

GitHub: [github.com/dip-bash/cli-desk-env](https://github.com/dip-bash/cli-desk-env)

- Built a tmux-based desktop-like environment with an app launcher, system panel, custom key bindings, and JSON-driven program configuration.
- Designed the full wrapper system to make tmux usable for newcomers and practical on remote servers.
- Implemented unified window/pane control, a top status bar with system info, and a structured configuration layer.
- Provided a cleaner workflow that replaces common GUI actions with fast, keyboard-driven commands inside the terminal.

## SKILLS

- **Data Science:** Data Processing & Reconciliation: Pandas (Data merging/cleaning), NumPy, Log Analysis, CSV/Parquet handling
- **Languages:** Python, Bash.
- **Infrastructure & Tools:** Linux (Advanced), Docker, Git, SQLite3, MySQL, Vim, Tmux.
- **Security Testing:** Burp Suite Pro, Nmap, Wireshark.

## CERTIFICATIONS

- Cyber Security [\[link\]](#)
- Complete Networking Fundamentals [\[link\]](#)
- Linux Shell Scripting [\[link\]](#)
- System Administrator [\[link\]](#)