

## EDUCATION

### Senior Secondary (XII), Science

National English School, Kolkata  
(CISCE board)

Year of completion: 2024

Percentage: 83.00%

### Secondary (X)

National English School, Kolkata  
(CISCE board)

Year of completion: 2022

Percentage: 91.40%

## WORK EXPERIENCE

### Software Developer

Upwork, Virtual

Job • May 2023 - May 2023 (1 month)

Developed 2-D platformer game with Pygame, Tkinter for Upwork client.

Met tight 3-day deadline.

Optimized code, boosting game efficiency by 20%.

Received client acclaim for quality and punctuality.

## POSITIONS OF RESPONSIBILITY

As Science Club President, I led projects, mentored students, and coordinated activities. I ensured project success from start to finish and fostered collaboration, enhancing my leadership and problem-solving skills.

As Tech-Lead at my school, I led all technical aspects, including organizing intrastate coding competitions and mentoring fellow students. This role enhanced my leadership and technical skills.

## PROJECTS

### Melody.CLI

May 2024 - May 2024

<https://github.com/pythonicforge/Melody.CLI>

Melody CLI is a command-line music player leveraging YouTube Music for seamless song search, audio download, and playback. Developed using YTMusicAPI for song retrieval, yt-dlp for downloading YouTube videos as MP3, and Pygame for playback control, it's ideal for developers and terminal enthusiasts seeking a streamlined music experience.

1. Search Songs: Utilize YouTube Music API for finding

songs by title or artist.

2. Download Audio: Convert YouTube videos to MP3 for offline listening.
3. Play Music: Directly play downloaded songs from the command line.
4. Playback Controls: Manage playback with intuitive commands (pause, resume, stop).

Technical Highlights:

1. YTMusicAPI: Retrieve songs and recommendations.
2. yt-dlp: Download and convert YouTube videos to MP3.
3. Pygame: Control audio playback seamlessly.

## **DevCraft**

Sep 2023 - Nov 2023

<https://github.com/pythonicforge/Dev-Craft>

Dev-Craft simplifies development environment setup and management via CLI. It automates software installation (VS-Code, Git, Python), GitHub repository creation, project directory setup with subfolders, and AI-generated README file creation.

Features:

1. Automates software installation (VSCode, Git, Python)
2. Creates GitHub repositories
3. Sets up project directories with subfolders
4. Generates AI-driven comprehensive README files
5. Installs base packages for project templates
6. Opens projects in VSCode for immediate use

Tech Stack:

Client: Python-argparse, Shell scripting

Server: Python

Dev-Craft streamlines the initial project setup process, enhancing efficiency for developers across various project types.

## **Peripheral Killing System**

Feb 2023 - Aug 2023

<https://github.com/pythonicforge/Peripheral-Killing-System>

Peripheral Killing System is a Python project revolutionizing computer interaction through hand gestures, eliminating the need for traditional input devices. It utilizes OpenCV and MediaPipe libraries for real-time hand detection and tracking.

Features:

1. Volume Control: Adjust volume by zooming in (thumb and little finger together) or out (thumb and little finger apart).
2. Brightness Control: Change brightness using similar gestures as volume control.
3. Mouse Control: Navigate cursor with index finger and perform left-clicks by closing thumb and index finger.

4. Air Keyboard: Simulate keyboard inputs through custom air gestures.

Tech Stack:

Client: Python Tkinter

Server: Python, OpenCV, MediaPipe

Experience a hands-free computing experience with Peripheral Killing System, enhancing accessibility and usability through intuitive gesture controls.

### **heySara**

Mar 2021 - Jan 2023

<https://hey-sara.netlify.app/>

Sara enhances productivity with voice and text commands, accessible directly from your browser. It features a responsive mobile design with a user-friendly UI, dark and light mode toggles, and Google Sign-In for personalized user dashboards.

Features:

1. Voice and Text Commands: Execute tasks like searching Wikipedia, Google, or YouTube, fetching directions, checking weather, and composing emails.
2. Music Playback: Play songs by voice command or text input.
3. Jokes: Enjoy a random joke to lighten the mood.
4. Cheat Sheet: Accessible within the UI for quick command reference.

Tech Stack:

Frontend: HTML, CSS, JavaScript

Backend: APIs for enhanced functionality

Experience Sara's intuitive interface and streamline your daily tasks with ease

### **hardik.ai**

Jul 2024 - Present

<https://hardikjaiswal.vercel.app/>

Explore Hardik.ai, my interactive portfolio showcasing expertise in Python development and AI engineering. Built with ReactJS and SCSS for the frontend, and Python for the backend, it features a sentence tokenizer and an interactive assistant for engaging user interaction.

Features:

1. ReactJS and SCSS: Modern frontend design for an engaging user experience.
2. Python Backend: Powers functionality and data management.
3. Sentence Tokenizer: Enhances text processing capabilities.
4. Interactive Assistant: Learn more about me through interactive queries.

Purpose:  
Serve as a digital resume highlighting skills, projects, and experiences in Python development and AI engineering.

Discover more about my journey and projects at Hardik.ai, where innovation meets digital storytelling.

SKILLS

<b>JavaScript</b> Advanced	<b>HTML</b> Advanced
<b>Python</b> Advanced	<b>CSS</b> Advanced
<b>Java</b> Intermediate	<b>React Native</b> Beginner
<b>ReactJS</b> Intermediate	<b>Git Bash</b> Intermediate
<b>MS-Office</b> Advanced	<b>UI &amp; UX Design</b> Intermediate

WORK SAMPLES

**GitHub link**  
<https://github.com/pythonicforge>

**Portfolio link**  
<https://hardikjaiswal.vercel.app/>

ADDITIONAL DETAILS

Secured 186 rank out of 14000 international participants in HPE Hackathon 2022

Gold Medalist in SilverZone International Informatics Olympiad 2023-24 with a state rank of 17 and international rank of 366

Community Ambassador at Scaler School of Technology

Secured 1st rank in LoggerHeads (Group Discussion) and 3rd Position in Athenian Theatrics (Science drama) at 15th International Macfair (CMS Lucknow)

Secured a spot in the top 100 participants in Kolkata police Hackathon in the year 2022