

Srijan Bhattacharyya



Summary

I'm Srijan Bhattacharyya, a highly motivated computer science engineering student with a strong foundation in programming languages, frameworks, and operating systems. My passion lies in artificial intelligence, and I thrive on building user-friendly software solutions. I'm the driving force behind projects like ISHA, an AI-powered smart home assistant designed for inclusivity, and R-Top Linux, a custom-built operating system from scratch. These projects demonstrate my technical skills, leadership qualities, and unwavering commitment to innovation. I'm constantly pushing boundaries and striving to create impactful solutions. You can find more about my work and projects on my personal website: srijan.76448.in.

Education

Techno Main Salt Lake (2022-2026)

- **Course:** Bachelors of Technology in Computer Science Engineering
- **SGPA:** 6.5+

Skills

Languages and Frameworks



Databases and Others



Platforms and Operating Systems



Projects

ISHA (Interactive Smart Home Assistant)

- **Description:** *ISHA* is an innovative smart home assistant developed using Python. It integrates advanced features such as *Emotional Artificial Intelligence (EAI)* and a custom-built *LLM (RAI)* to provide a user-friendly and empathetic experience. Designed with a

focus on inclusivity, ISHA aims to be particularly helpful for older adults, individuals with depression, and other vulnerable populations.

- **My Role:** *Founding Developer, AIML Architect, Lead Developer, Software Engineer*

R-Top Linux

- **Description:** *R-Top Linux* is a custom-built 64-bit operating system developed from the ground up. Based on the *Linux from Scratch (LFS)* philosophy, it incorporates core functionalities such as *process management*, *memory management*, and *device drivers*. *R-Top Linux* features a versatile design, supporting both minimal (*i3wm*) and more resource-intensive (*KDE*) Graphical User Interfaces to cater to diverse hardware and user preferences.
- **My Role:** *Founder & Lead Developer, OS Developer, OS Architect, UI/UX Designer for OS, Software Engineer, Kernel Developer*

DynamicCVGenerator

- **Description:** This Python script, generates a professional resume in PDF format. It leverages JSON data files to define user information, styles, and templates. The script processes this data, generates Markdown, and then converts it to a polished PDF document using wkhtmltopdf.
- **My Role:** *Project Architect, Lead Developer, Data Architect, UI/UX Designer, System Integrator, Project Manager, Documentation Writer*

Memberships and Position

- **IIC TMSL (2022-Present):** Tech Wing Member
- **GLUG Kolkata (2022-Present):** Member
- **Ark Tech Organization (2022-Present):** Marketing Lead