

# SAYAN BARMA

+91 9678450747 ◊ India

[sayanbarma2004@gmail.com](mailto:sayanbarma2004@gmail.com) ◊ [linkedin.com/in/sayan-barma-ab0973289](https://linkedin.com/in/sayan-barma-ab0973289) ◊ [github.com/N00BSC00B](https://github.com/N00BSC00B) ◊ [Portfolio](#)

## PROFESSIONAL SUMMARY

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Computer Science and Engineering undergraduate with practical experience in full-stack development, AI-driven automation, and cross-platform applications. Adept in Python, JavaScript, and modern frameworks like FastAPI and React. Engineered and deployed multiple end-to-end solutions with measurable results. Enthusiastic about addressing complex challenges using clean, scalable code and modular architectures.

## EDUCATION

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**B.Tech in Computer Science and Engineering**, BCET, Durgapur Aug 2022 – May 2026  
MAKAUT — CGPA: 7.4

**Kendriya Vidyalaya No. 2 Delhi Cantt.**  
CBSE Class 12 (HSC 2022): 87% — CBSE Class 10 (SSC 2020): 93%

## SKILLS

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**Languages:** Python, Java, JavaScript, C  
**Web Technologies:** HTML, CSS, Flask, FastAPI, Django, WebSockets, React.js  
**Databases:** MySQL, MongoDB, PostgreSQL, SQLite  
**Tools:** Git, GitHub, n8n, Electron, Capacitor, Vite  
**Libraries & Frameworks:** Scikit-learn, TensorFlow, Pandas, NumPy, PyQt, Selenium, BeautifulSoup, Discord.py  
**Concepts:** Automation, AI/LLM Integration, RBAC, Data Visualization, RSA Cryptography, Unit Testing

## TECHNICAL EXPERIENCE

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**JobiPilot: AI-Powered Job Application Automation** *Tech Stack: n8n, Python, Gemini, API Integration, Google Sheets* [\[GitHub\]](#)

- Architected an end-to-end job application pipeline using n8n to automate data aggregation from multiple sources, including RSS feeds and the JSearch API.
- Integrated Google's Gemini Pro model to perform AI-driven analysis of job descriptions against a personal resume, generating a match score and a tailored cover letter.
- Developed a module to automatically customize and generate a unique LaTeX resume tailored for each specific job opportunity, streamlining the application process.

**Udemy Free Course Grabber** *Tech Stack: React, Electron, Capacitor, Vite*

[\[GitHub\]](#)

- Engineered a cross-platform application for Windows (with Electron) and Android (with Capacitor) from a single React codebase.
- Implemented real-time search and smart filtering by category, rating, and duration, consuming data from the Real Discount course aggregation API.
- Built a responsive, theme-able UI with dark/light modes to ensure a seamless user experience across desktop and mobile devices.

**DCC Integration with Blender** *Tech Stack: FastAPI, PyQt, SQLite, Blender API*

[\[GitHub\]](#)

- Developed a comprehensive Digital Content Creation (DCC) workflow by integrating a custom Blender plugin with a FastAPI backend and a PyQt desktop GUI.
- Built a RESTful API using FastAPI to manage asset inventory and handle real-time 3D object transformations requested from the Blender or PyQt clients.
- Created a real-time desktop interface in PyQt for interactive object manipulation and transformation tracking, with data persisted via SQLite.