

# SOHAM BANSAL

+91 6283396322 | [bansalsoham92@gmail.com](mailto:bansalsoham92@gmail.com)  
| [LinkedIn](#) | [GitHub](#) | [LeetCode](#)

## OBJECTIVE

Motivated pre-final year Computer Science Student at TIET Patiala with deep passion for technology and with unwavering curiosity to learn. Love to tackle complex computational problems, automating AI pipelines. Viewing challenges as opportunities. For me, every challenge is a chance to learn and grow. Curious about emerging tech and see technology as one of the powerful assets that makes tasks easier, more efficient and enhances everyday life.

## EDUCATION

**Thapar Institute of Engineering and Technology, Patiala**  
Bachelor of Computer Science Engineering  
Related Coursework - Data Structures & Algorithms, Operating System, Software Engineering, Computer Networks, Database Management System, Cloud Computing

CGPA: **8.45**  
September 2022 – Present

**Guru Nanak Foundation Public School, Patiala, Punjab**  
Percentage: **89.99**

10+2  
April 2021 – March 2022

## TECHNICAL SKILLS

- Languages: C, C++, SQL, PL/SQL, Python, HTML/CSS, MATLAB
- Technologies: GitHub, Linux, Google AI Studio
- Generative AI, LLM'S, Machine Learning, Data Processing, Keras, Tensorflow
- Fast API, PHP, Backend.

## EXPERIENCE

**Samsung Research & Development, Bangalore, India**  
Worked closely with Samsung researchers and faculty mentors, contributing to cutting edge advancements  
Successfully executed research based on predefined problem statements, contributed innovative solutions and demonstrated dedication to excellence

January 2024 - June 2024

**Social Volunteer, Har Hath Kalam (HHK), Patiala**  
Active Participation in events, Managed Social Welfare Activities, Exchanged of ideas and suggestions

June 2023 – August 2024

## PROJECTS

### Configuration Files Automation for Matter Device Integration

- Contributed to a CLI-based GenAI system that automated the parsing of ZAP files and generation of configuration outputs to simplify IoT device onboarding into the SmartThings platform.
- Enabled seamless, no prior knowledge device integration in SmartThings, eliminating manual intervention and accelerating scalability

### One Tap Object Removal From Video

- Designed a system that enables users to remove unwanted objects from videos seamlessly, filling the space naturally.
- Developed an app for effortless video processing, allowing users to upload a video, mark objects with two points, and automate the removal process

### ÆTHER: Intelligence Without Limits

- Engineered a zero-touch automation system that converts plain prompts into full task execution across apps and interfaces
- Enabled intelligent control over the OS—triggering real-time interactions like opening apps, navigating UIs, and completing tasks autonomously.

### NeuroMap: Your Virtual Brain

- NeuroMap is an AI-powered cognitive mirror that understands how you learn and evolves with you, ensuring every new concept connects seamlessly to your personal way of thinking.

## POSITION OF RESPONSIBILITY

**Fine Arts and Photography Society (FAPS)**  
Oversaw all aspects of event logistics including venue selection, vendor coordination, scheduling, transportation arrangements, accommodations, and onsite support services.  
Led volunteer recruitment efforts for large-scale events, developing and implementing effective training programs to ensure efficient on-site support.

September 2023 - May 2024

**Head of Discipline committee Vyom Hall**  
Led the Discipline Committee of a 900+ resident hostel, maintaining order and decorum. Awarded by university officials for exemplary leadership  
Analyzed peak busy hours and optimized rules for a more efficient system. Implemented strategic management practices to maintain discipline effectively.

August 2024 - December 2024