



Satvik Garg

Roll No.:B23EE1094

Bachelor of Technology

Electrical Engineering

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. (EE)	Indian Institute of Technology, Jodhpur	8.39	2023 - Present
Senior Secondary	CBSE Board	95.0%	2023
Secondary	ICSE Board	98.8%	2021

EXPERIENCE

- **Microsoft** | *Software Engineering Intern* | Python, KQL, Azure, pandas, scikit-learn May 2026 – Present
 - Developed customer propensity models to rank accounts by likelihood to adopt enterprise governance products, prioritizing outreach and improving targeting precision up to **10x** over random outreach.
 - Distilled a **13M+** record database into a 470K+ account modeling dataset, engineering predictive features and training models that achieved ROC-AUC up to **0.95**.
 - Applied model explainability (SHAP) to attach a clear, business-readable reason to each prioritized account, making recommendations transparent and actionable.
- **IIT Hyderabad** | *Project Intern* | React Native, Express.js, PostgreSQL, Docker May 2025 – Jun 2025
 - Spearheaded the end-to-end development of a scalable real-time communication platform for **20+** users, improving co-ordination time by **70%**.
 - Engineered key features including role-based onboarding, secure access key generation, custom notifications and domain-specific broadcasts for seamless team collaboration.

PROJECTS

- **Drawlio** | **Real-time Multiplayer Game** | React.js, Express.js, Socket.io, Tailwind | Live Demo | Github Jul 2025 – Aug 2025
 - Built a real-time web-based Pictionary-style game supporting **10+** simultaneous rooms using WebSockets for low-latency communication and REST APIs for game setup and scoring.
 - Designed an event-driven architecture with custom event definitions to handle player actions, room updates and live chat, ensuring seamless synchronization between clients and server.
 - Implemented robust connection management with error handling for disconnects, duplicate joins and session recovery, achieving reliable gameplay with **sub-50ms** response time under load.
- **CustomPix** | **AI-powered Image Editing Suite** | Python, OpenCV, SAM, Diffusers, Gradio | Github Jun 2025 – Jul 2025
 - Integrated **3+** advanced AI models into a unified pipeline enabling precise object segmentation, intelligent inpainting and neural style transfer within a seamless workflow.
 - Programmed OpenCV-based methods for mask-guided background removal and region recoloring, achieving precise and visually consistent image outputs.
 - Built an interactive Gradio interface supporting real-time previews, mask uploads and text-prompt-based editing, delivering an intuitive user experience for AI-driven image manipulation.
- **Cube vs Zombies** | **CSL1010 Course Project** | C, SDL2 | Github Feb 2024 – Mar 2024
 - Developed a 2D single-player shooting game in C using SDL2, featuring health tracking, loot drops, scoring and player progression across **5** interactive maps.
 - Designed and implemented **3** distinct enemy AI types with real-time player-tracking and attack mechanics, adding adaptive difficulty and replay value.
 - Recognized as the **Best Project** out of **50+** submissions by Prof. Mayank Vatsa for innovation, design and technical execution.

TECHNICAL SKILLS

- **Programming Languages:** C, C++, Python, Java, JavaScript, TypeScript
- **Web Development:** HTML, CSS, React.js, Node.js, Express.js, Tailwind, REST API, JWT, WebSockets
- **Frameworks & Libraries:** React Native, Pandas, NumPy, scikit-learn, PyTorch, OpenCV, Hugging Face
- **Tools & Services:** Git, GitHub, Azure, Google Cloud, Docker, Linux, Firebase
- **Databases:** MySQL, PostgreSQL, MongoDB

KEY COURSES TAKEN

- Data Structures and Algorithms, Pattern Recognition and Machine Learning, Computer Organization and Architecture, Computer Vision, Introduction to Computer Science, Probability and Statistics, Linear Algebra, Embedded Systems

POSITIONS OF RESPONSIBILITY

- **Teaching Assistant**, Introduction to Computer Science (CSL1010) Course Jan 2026 - Apr 2026
- **Head**, Prometeo '26 (Technical Fest of IIT Jodhpur) Nov 2025 - Jan 2026
- **Student Guide**, Student Wellbeing Committee, IIT Jodhpur Jul 2024 - May 2025

ACHIEVEMENTS

- **Rank 1** in school in the ICSE 10th grade board examinations with an outstanding 98.8%.
- **Top 20** out of 250+ students in the Introduction to Computer Science course