

Mihika

LinkedIn: www.linkedin.com/in/mihika-saxena-b5bb8a28b

Email: mihika11saxena@gmail.com

GitHub: github.com/mihika1110

Mobile: +91-7740910965

EDUCATION

- **Indian Institute of Technology, Patna** Patna, Bihar
Bachelor of Technology - Computer Science and Engineering — CPI: 7.59 2023 - Current
- **DAV ACC Sr. Sec. Public School, Lakheri** Rajasthan
CBSE — CLASS XII — Percentage: 95.8% 2022
- **DAV ACC Sr. Sec. Public School, Lakheri** Rajasthan
CBSE — CLASS X — Percentage: 94.5% 2020

PROJECTS

- **SaveSmart – Expense Tracker App (Ongoing):** Developing a full-stack expense tracking application to help users manage their finances efficiently. Implementing features like secure login/signup, currency selection, transaction logging (monthly and financial reports), income-expense management, detailed budgeting, and a customizable user profile, dark theme support. Enhancing user experience with security settings, theme customization, and help support. Building a scalable backend for secure data storage and efficient transaction management.
Tech: Android Studio, Kotlin, Firebase, Jetpack Compose & Figma
- **Indian Railway Ticket Reservation System (April'25):** Designed and implemented a relational database for a railway reservation system with features like PNR tracking, waitlist management, multi-class booking, and refund processing. Created ER diagram, normalized schemas, and implemented complex SQL queries, procedures, triggers, and indexing for optimized performance. Developed support for real-world constraints including seat availability, concessions, and cancellation workflows.
Tech: MySQL, SQL, Database Design & Figma/Canva
- **Suika AI (AI-Powered Puzzle Game) (March '25):** Developed an automated version of the Suika Game (Japanese puzzle) using reinforcement learning (Q-learning) to optimize fruit-merging strategies. Engineered physics-based interactions (Pymunk) for realistic collisions and gravity simulation, and built a dynamic GUI (Pyglet) with real-time previews and score tracking. Collaborated in a 5-member team to integrate AI logic with game mechanics, achieving seamless gameplay and strategic depth.
Tech: Python, Pymunk, Pyglet, Reinforcement Learning (Q-learning), Game Development
- **CodeCraft Assistant (AI-Driven Game Development)(for CRISIL Build.Disrupt.Win Hackathon) (February'25):** Developing an AI-powered software solution to automate app development, enabling rapid creation of business-specific applications. Integrating privacy and security features through Natural Language Processing(NLP), Large Language Model(LLM), and open-source technologies. Building an autonomous agent for end-to-end development, from coding to testing, including automated test case generation, execution, and providing detailed feedback for enhanced efficiency.
Tech: React, JavaScript, Python, PyTorch, Figma, Vercel & VS Code
- **Library Management System (March '24):** Developed a program with the features of authentication like user login, register, issue book, return book, show available books.
Tech: C & VS Code

SKILLS SUMMARY

- **Programming Languages:** C++, C, Python, HTML, CSS, JavaScript, SQL, Kotlin, Verilog
- **Frameworks and IDEs:** Android Studio, Node.js, React
- **Design and Productivity Tools:** Adobe Photoshop, Canva, Figma, LaTeX, Overleaf, Microsoft Teams, Zoom
- **Platforms and Operating Systems:** Linux, Windows, Web, Arduino
- **Soft Skills:** Leadership, Public Speaking, Teamwork, Creative Writing, Organizational Skills, Perseverance

EXPERIENCE

- Completed Student Upskilling Launchpad Program by Google - May 2025
- Completed Graphs Programming Camp organized by AlgoUniversity - December 2024

ACHIEVEMENTS

- Represented IIT,Patna in Inter IIT Cultural Meet 7.0 as a Contingent of Epicurean, Culinary Club of IIT Patna and secured first position - 2024
- Secured All India Rank(AIR) 5229 in JEE Advanced. - 2023
- Pupil with a rating of 1310 on Codeforces — Handle: mihikas02 - Present

POSITION OF RESPONSIBILITY

-
- | | |
|---|-----------------------|
| • Coordinator, Web Development Committee, HoSCA, IIT Patna | <i>2025 – Present</i> |
| • Coordinator, Hospitality & Logistics Committee, TEDxIITPatna | <i>2025 – Present</i> |
| • Coordinator, Media & Public Relations, Anwesh, IIT Patna | <i>2025 – Present</i> |

VOLUNTEERING

-
- | | |
|---|-------------|
| • NSS, IIT Patna | 2023 - 2024 |
| • <i>Volunteer Activities</i> | |
| • Registration, Security & Planning Committee, Anwesh IITP | 2023 - 2024 |
| • <i>Committee Member</i> | |
| • Media & Public Relations Committee, Celesta IITP | 2023 - 2024 |
| • <i>Committee Member</i> | |