

# Aarushi Bhatia

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## Experience

### DRDO - Defense Research and Development Organisation

June 2025 – July 2025

*Software Intern*

*Delhi, India*

- Created a **web-based platform** that reduced **manual data entry effort by over 70%** through automation.
- Developed **8+ reusable components** to manage and edit Excel data from **100+ scanned documents**.
- Used **OCR with 90%+ accuracy** for reliable data extraction from hardcopy sources.

### MentorPal.ai

June 2024 – September 2024

*Full Stack Developer*

*Bengaluru, India*

- Built an **online assessment platform** using **React.js, Node.js, and JavaScript**.
- Implemented **10+ RESTful APIs** to connect the **front-end and back-end smoothly**.
- Worked with **cross-functional teams** to match features with business needs, leading to a **20% rise in user activity**.

## Projects

### Medisure | *React, Express.js, Node.js, MongoDB*

GitHub | Link

- Engineered a full-stack platform enabling doctors to **upload medical images (bone, tumor scans)** with instant analysis and report previews, cutting **manual workload by 65%**
- Made a responsive frontend using **React, Tailwind CSS**, featuring **4+ data views** and secure file uploads.
- Set up a backend with **Express.js, MongoDB**, for AI-powered analysis and reports.

### StudyLM | *React, Express.js, Node.js, Langchain.js, Gemini*

GitHub | Link

- Coded a full-stack AI application using **RAG** enabling PDF-based chat through a **5-step retrieval pipeline**.
- Connected **Google Gemini API** and **Langchain.js** with **12-vector retrieval** and **keyword scoring** for improved relevance.
- Processed PDFs using **1000-token chunks** with **200-token overlap** for context-aware Q&A.

### Flavorly | *React, Express.js, Node.js, Tailwind CSS, MongoDB*

GitHub | Link

- Programmed a food delivery platform with a curated menu of **30+ items** using **React** and **Tailwind CSS**.
- Formulated **JWT authentication** for secure user login and registration .
- Designed an admin dashboard, interactive cart and order summary using **10+ modular components**.

## Achievements

- **Smart India Hackathon '24 Finalist** by MoE | Ranked in the top **2.4%** teams nationwide
- **Finalist at HackData 2025** | **Top 40 teams among 350+** participants.
- Selected for **IDE Bootcamp '25** | Ministry of Education, India
- **Global Rank 589** in CodeChef Starters 197
- Solved **700+ Data structures & Algorithm problems** on LeetCode, CodeChef (2 Star) and Codeforces
- Published a research paper titled 'Using Hydrogen SI Engine with EGR System in Submarines' under **Wiley**
- **Hacktober Fest Participant** | Contributed high-quality pull requests during Hacktoberfest 2024.
- **SheFi Scholarship Recipient** | Selected for a **global Web3 accelerator worth \$799**, backed by Aave, Uniswap, and other leading blockchain projects

## Technical Skills

**Languages:** C/C++, Java, JavaScript, Python, R, SQL, HTML/CSS

**Frameworks & Libraries:** Express.js, Material-UI, Next.js, Node.js, React, Langchain.js, Google Gemini API

**Tools & Platforms:** AWS, Git, GitHub, REST APIs, VS Code, Vercel

**Databases:** MongoDB, Postgres

## Education

### Dronacharya College of Engineering

*B.Tech. in Computer Science (AIML) | CGPA: 8.6*

Gurugram, Haryana

*August 2023 – May 2027*

### Lions Public School

*Senior Secondary & High School (CBSE) | 12th: 94.4% | 10th: 96.4%*

Gurugram, Haryana

*June 2023*