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.

AskyourDoc | *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
- 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

Gurugram University Gurugram, Haryana
B.Tech. in Computer Science | CGPA: 8.6 *August 2023 – May 2027*

Lions Public School Gurugram, Haryana
Senior Secondary & High School (CBSE) | 12th: 94.4% | 10th: 96.4% *June 2023*