KHUSHI SHRIVAS

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Skills & Certifications

Programming	Python, Java, C++, JavaScript/TypeScript
Web/Visualization	React, Node.js, Tailwind, D3.js, Recharts, HTML, CSS
AI/ML & CV	NLP, LLMs, RAG systems, CUDA, PyTorch, OpenCV, OCR
DB/Cloud	MySQL, MongoDB, SQLite, Azure, AWS
Tools	Git/GitHub, Postman, Agile/Scrum, SDLC, OOP, VS Code, Docker
Soft Skills	Problem-solving, fast learner, collaborative, detail-oriented, creative thinker
Certifications	Azure DP-900 🎖 , ISRO START Program 🎖 , NTSE Stage-1 Qualified

Education

VIT University, Vellore — *2022 – Present*
B.Tech in Computer Science and Engineering

Adarsh Jain Dharmic Shiksha Sadan, New Delhi — *2022, 93.8%*
Senior Secondary

CRPF Public School, Dwarka — *2020, 97.2%*
Secondary

Experience

Bharat Electronics Limited (BEL) 🌐 — *May 2025 – June 2025*
Software Intern

- Developed an offline AI assistant for PDF summarization, Q&A, and visual comparison using Python, PyTorch, and LLaMA.cpp, ensuring confidentiality for sensitive defense documents.
- Built a Retrieval-Augmented Generation (RAG) pipeline with OCR, FAISS-based semantic search, and LLaMA.cpp to enable accurate, context-aware Q&A over 100+ page technical manuals.
- Optimized the system to process 100+ page PDFs in under 10 seconds, cutting manual review from nearly an hour and accelerating technical evaluations.
- Ensured 100% offline operation — critical for security compliance in classified defense workflows — and validated robustness across 25+ documents with adoption by 7+ engineers.

Projects

Campus Co-Lender ⊙

- Developed a full-stack campus marketplace with Flask/MySQL backend and Tailwind/JS frontend.
- Implemented secure authentication, product listings, bookmarks, reviews, real-time messaging, and cart updates using WebSocket.

Career-Map ⊙

- Full-stack skill visualization & resume analysis platform using Flask, MongoDB, React, Tailwind, D3.js and Recharts.
- Integrated Gemini API for AI-powered resume parsing and skill extraction.
- Built interactive graph-based dashboards visualizing skill dependencies, career readiness, and clustering of related skills.
- Implemented secure JWT authentication, modular REST APIs, and scalable backend operations.
- Leveraged AI-assisted development environments (Cursor, GitHub Copilot) to accelerate prototyping and integrate intelligent features.

Multimodal RAG PDF Assistant ⊙

- Offline AI assistant for Q&A, summarization, and analysis of text + scanned PDFs using PyTorch, LangChain, FAISS, and OpenCV.
- Added table parsing, chart extraction, and image comparison; optimized GPU inference using CUDA streams and batch processing.

Quiz Portal ⊙

- Gamified quiz platform with lifelines, leaderboards, and animations using React and Node.js.
- Integrated performance analytics and persistent state management.