

Rakshath U Shetty

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EDUCATION

Dayananda Sagar University

Bachelor of Technology in Computer Science. (SGPA: 10 CGPA: 9.31)

Bengaluru, India

Graduation Date: May 2024

EXPERIENCE

Freelance Role: Full Stack Developer

Jan 2025 — Feb 2025

Pamara | [Live Website](#)

Remote

- Created and launched a modern, responsive website with 5+ features for a lifestyle brand, optimizing customer reach.
- Implemented a custom admin dashboard for product, user, and content control, reducing manual ops by **60%**.
- Revamped SEO and load speed using lazy loading and metadata tweaks, enhancing page performance and visibility by 40%

Startup Role: Software Engineer Intern

Jul 2024 – Dec 2024

Freo - MoneyTap | Backend Java Developer

Bengaluru, India

- Developed and debugged code, leveraging log analysis to resolve issues and maintain system stability; wrote REST SDK test scripts to automate FinFlux testing, reducing manual testing by **40%** and enhancing deployment reliability by **25%**.
- Directed the repayments service, **owning the process** in a 6-member backend team, **automating updates for customer collections** from lending partners, leading to a **30%** efficiency gain and **20%** improvement in payment accuracy.

Startup Role: Full Stack Developer, Junior Data Engineer

Sept 2023 – Feb 2024

AnTech Crew - Freelancing Startup

Bengaluru, India

- Pioneered the early startup team, securing **65+** clients in **4** months. Led a cross-functional team of developers; reviewed problem solving approaches and microservices architecture; promoted communication with test-driven development.
- TaskFlow** | **Github**: Engineered backend with **Twilio** voice calls and **cron jobs**, enhancing user task completion by **35%**.
- Upgraded a **MERN** app with 15+ features and **Stripe** for payments, elevating transactions by 50%, reducing issues by 25%
- Implemented and optimized scalable data pipelines with **data cleaning** in the **ETL process** for a Data warehouse, processing 2GB of data weekly, enhancing **data visualization** accuracy by **25%** and reducing data processing time by **40%**

PROJECTS

AdGen | [Link](#) | [Github](#)

Jul 2025 – Jul 2025

- Created an AI-powered ad generation platform that transforms product URLs into 15–30 sec MP4 video ads using **GPT-4** for scripts, **Render** for rendering, and animated overlays with CTA highlights.
- Automated product data extraction from Amazon/Shopify using **Puppeteer** and streamlined the ad creation workflow — users paste a link, and the system generates scripts, previews, and downloadable videos — optimizing engagement by **70%**.

Assistant Research Agent | [Deployed Link](#) | [Github](#)

Jul 2025 – Jul 2025

- Engineered an AI research agent using **LangChain**, **Mistral-7B**, and **Streamlit**, enabling tool-augmented web search, PDF summarization, Wikipedia retrieval, math solving, and reasoning explanation — reducing manual research time by **60%**.
- Integrated tools like **Tavily**, **PythonREPL**, and a custom reverse tool, with **multi-turn memory**, **Chain-of-Thought tracing**, and an interactive **Streamlit UI** — increasing research capabilities and task automation by **50%**.

Chat With Your PDF | [Hugging Face Link](#) | [Github](#)

Jul 2025 – Jul 2025

- Programmed a high-speed RAG chatbot using **SentenceTransformers**, **FAISS**, **MiniLM**, and **Mistral-7B** (via **OpenRouter**), enabling conversational document queries — reduced information retrieval time by **65%**.
- Integrated an interactive **Streamlit UI**, **PyMuPDF**, and **LangChain**-style memory; incorporated semantic chunking, token optimization, real-time retrieval, and context-aware prompts — achieving **90%+** answer accuracy in user tests.

CastX (Extension of UR-Connect) | [Deployed Link](#) | [Github](#)

Mar 2024 – Oct 2024

- Designed and developed a full-stack multimedia engagement platform using **Next.js** enabling **real-time broadcasting** of video and audio content via non **WebRTC** with interactive audience participation. Acquired 60% of users from UR-Connect
- Added **10+** features—follow/block, chat, OBS/playstation support; used **Server Actions** for efficient, insight-rich streams.

SKILLS AND COURSEWORK

Languages: Python, Java, JavaScript, TypeScript, SQL, C++, HTML/CSS **Databases:** MongoDB, PostgreSQL, MySQL, Redis

Frontend: React, Next.js, TailwindCSS, ShadcnUI, Zustand **Backend:** Node.js, Express.js, Spring Boot, FastAPI, GraphQL

AI/ML + RAG: LangChain, FAISS, QLoRA, PEFT, OpenAI, OpenRouter, Mistral-7B, SentenceTransformers, Tokens

Vision + Multimodal: CLIP, BLIP, OpenCV, ViT, OCR (pytesseract, easyocr), Image Embeddings and Captioning, VQA

DevOps + Tools: Docker, GitHub Actions, Vercel, Firebase, Postman, VirtualBox, Streamlit, PyMuPDF, WebSockets, CI/CD

Other: DSA, OOP, OS, DBMS, CN, REST, JWT, System Design, VS Code, IntelliJ, Agile, NLP, ML, Cybersecurity, Cloud - AWS

ACHIEVEMENTS AND CERTIFICATIONS

- **Achievements:** Attained **Grand Master**, **Dominator** (highest rank among 7 leagues), and **MASTER** titles in **Naukri (Code 360)**, resolving **1000+** complex problems, ranking among the top **503 participants**, and demonstrating exceptional skills.
- **Hackathon:** Led a 2-member team to secure **Top 2** in a **State-level project competition** (BIT) among **300+** participants.
- **Certifications:** Acquired **7+** certificates, including Python for Data Science - **NPTEL** (IIT Madras), DBMS - **CN** - **Naukri**, Android Studio - **Google Developer**, OOP - **CN** - **Naukri**, and AI/ML Foundation - **Infosys Springboard**.
- **Technical Challenges:** Architected **20+** full-stack/AI projects; hosted apps on [Streamlit](#), [Hugging Face](#), and [Vercel](#).