

Abhinav Kumar

Portfolio | GitHub | LinkedIn

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Education

- **B.M.S College of Engineering** Bangalore, Karnataka
Bachelor of Engineering (CSE); GPA: 8.76/10 Dec. 2021 – June. 2025

Technical Skills

Languages: Python, C/C++, MySQL, JavaScript, HTML/CSS, Linux.

Frameworks: Reactjs, MongoDB, Streamlit.

Developer Tools: Git, GitHub, Docker, Jenkins, Jira.

Cloud Service: Google Cloud Platform, AWS.

Libraries: Pandas, NumPy, Matplotlib, Scikit-learn, Seaborn.

Experience

- **Siemens Digital Industries Software (Formerly Altair, Inc.)** Bangalore, Karnataka [On-site]
Quality Assurance Intern Jan 2025 – Present
 - Performed **exploratory, sanity, and regression testing** on Altair Cost AI™ (FBOM-based) and using Jira for defect tracking.
 - Automated test cases in **Katalon Studio** and ran manual tests under Test plans via **Jira Xray**.
- **Mifos Initiative** Seattle, WA [Remote]
Google Summer of Code (GSoC) '25 Mentor Mar 2025 – Present
 - Mentoring **2** projects under **Mifos-Gazelle**, a DPI-as-a-Service deployable for MifosX/Fineract, Payment Hub EE, and Mojaloop.
- **Mifos Initiative** Seattle, WA [Remote]
Software Intern June 2024 – Sep 2024
 - Updated Mifos Gazelle to deploy latest versions of **Mojaloop, Fineract, Mifos X Web App, and Payment Hub EE**.
 - Reduced Gazelle memory usage from **16GB to 8GB** by consolidating **MySQL, Kafka charts** and optimizing deployment parameters.
- **Samsung R&D Institute India** Bangalore, Karnataka [Remote]
Project Intern Feb 2024 – Oct 2024
 - Proposed and implemented the **CoCT** (Chain-of-Conversational-Thoughts) framework for contextual action execution reasoning in **LLM-based voice assistants**.
 - **Fine-tuned** conversational language models and integrated **RAG** for **task decomposition** across diverse query types (**Conversational, Distracting, Situational**).

Projects

- **TaskFlow - Django, Docker, AWS, Jenkins:** Deployed a Django app in Docker with CI/CD via Jenkins on AWS EC2 for automated container-based delivery.
- **LangToSQL - Python, Streamlit, Gemini Pro, SQLite:** Built a Streamlit app using Gemini Pro to convert natural language into SQL queries and retrieve live database results.

Achievements

- Secured Top 5 position in 36-hour Data Science Hackathon organized by **Altair** (2024).
- Achieved Global Rank 281 in TCS CodeVita Round II organized by **TCS** (2024).
- Contributed to PolyPhy under **CROSS – UC Santa Cruz** as an open source developer (2023).
- Selected among **10k+** contributors for **Code for GovTech** program with 1,00,000 stipend (2024).
- Building **Mapi.ai** – Converted text to diagrams using **Mermaid.js and AI**.