



Abhinav Kumar

1BM21CS003

Bachelor of Engineering
in Computer Science and Engineering
BMS College of Engineering , Bangalore

+91-8630239718

abhinav.coder131@gmail.com

abhinav.cs21@bmsce.ac.in

GitHub

LinkedIn

EDUCATION

Degree	Institute	Board / University	CGPA/Percentage	Year
B.Tech CSE	BMS College of Engineering , Bangalore	BMSCE Bangalore	8.8 (Till 5th Sem)	2021-2025
Senior Secondary	Kendriya Vidyalaya Panambur, Mangalore	CBSE	95.6%	2021
Matriculation	Kendriya Vidyalaya Nausena Bagh, Vizag	CBSE	90%	2019

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.

RELEVANT COURSEWORK

- Data Structures
- Algorithms Analysis
- Artificial Intelligence
- Object Oriented
- Software Methodology
- Database Management
- Computer Networks
- Operating Systems

EXPERIENCE

- **Mifos Initiative** June 2024 - Sep 2024
Software Engineer Intern USA, seattle - Remote
 - Reduced Mojafos **memory footprint** for new Mojafos deployment to lower resource usage from **32GB** to **16GB**.
 - Fixed critical bugs, completed various **Jira** tickets related to **Helm charts**, and updated run.sh for accurate feature reflection.
 - Implemented the latest stable releases of **Fineract** core banking system (1.9), **Mojaloop** (vNext), and **Mifos X Web App**.
 - Replaced hosted vendor charts with local **OpenMF Helm charts** and addressed unresolved **values.yaml** issues.
- **Samsung Research Institute India** Mar 2024 - Aug 2024
Research and Development Intern Bangalore, India - Remote
 - Developed and evaluated first **LLM models** for detecting AI-generated text for **Bixby assistant**, leveraging different datasets and state-of-the-art methods.
 - Research on **sentiment analysis** and various **NLP** techniques, enhancing understanding of **language processing**.
 - Designed a comprehensive **RAG Architecture** diagram, detailing the pipeline and model training process for efficient deployment.
 - Compared the **reasoning abilities** of transformer models (**BERT, GPT, T5, Falcon, Flan**) using standardized **benchmarks** to assess **performance** variations

PROJECTS

- **TaskFlow** Mar 2021 - Apr 2021
Django, Docker, AWS, Jenkins, Git Github
 - Deployed a Django-based todo application using **Docker**, ensuring efficient **containerization** and **scalability**.
 - Created a **Dockerfile**, built a **Docker image**, and ran the container, exposing it to port **8000** for access.
 - Installed Jenkins on the **EC2 instance** and developed a **CI/CD pipeline** to **automate** fetching code from GitHub, building the Docker image, and deploying it.
- **LangToSQL** May 2024 - June 2024
Python, Streamlit, Google Gemini Pro, SQLite Github
 - Developed an interactive application leveraging **Google Gemini Pro** to translate **natural language questions** into **SQL queries** and retrieve data from a **SQL database**.
 - Built a user-friendly interface using **Streamlit** to allow users to input questions and **view query** results in **real-time**.
 - Developed functions to connect to **SQLite**, execute dynamically generated **SQL queries**, and fetch results.
- **LinkShare** Dec 2023 - Feb 2023
React.js, Express.js, MongoDB, Node.js Github
 - Developed a personalized File Sharing Application utilizing **MERN** enabling seamless document uploads and **automatic link** generation for **effortless** sharing and downloading.
 - Designed and implemented **secure** backend functionalities to manage **file storage** and **retrieval**.

ACHIEVEMENTS

- **Secured 2nd Position**, 36-hour data science hackathon, **Altair** 2024
- **Global Rank 281**, TCS Codevita Round - II organized by **TCS** 2024
- **Core Maintainer**, PolyPhy a toolkit for recreating networks to sparse 3D data under **CROSS - UC Santa Cruz** 2023
- **Selected Mentee**, Selected among **10k+** contributors for **Code for Gov Tech** program, receiving a 1 lakh stipend 2024