Kaustav Ghosh

teetangh@gmail.com | +91-8800441954| linkedIn/kaustav-ghosh-1538651bb | github/teetangh | Bengaluru, India

EDUCATION

Manipal Institute of Technology   Manipal, IN | 2018 – 2022
B. Tech Computer Science & Engineering (w/ Computational Intelligence)   CGPA: 8.57/10

WORK EXPERIENCE

COUCHBASE | Software Engineer   Bengaluru, IN | Jan 2023 – Present

- Architected an AI agent tutorial framework leveraging **Capella vector database**, **Agent Catalog**, and orchestration via **LangGraph**, **LangChain**, and **LlamaIndex** for production-ready agentic applications
- Engineered a RAG evaluation pipeline using **Arize Phoenix** with automated scoring across relevance, hallucination detection, QA accuracy, and toxicity for LLM-powered applications
- Built production RAG integrations with **Cohere**, **Voyage AI**, **JinaAI**, **Claude AI**, **Azure AI**, **AWS Bedrock**, and **Crew AI**, and implemented **GraphRAG** using Microsoft's framework with Couchbase vector storage
- Developed a **Langflow-Couchbase** integration enabling no-code construction of production RAG pipelines with Couchbase as the vector store
- Contributed 149+ pull requests across couchbase-examples and Couchbase-Ecosystem organizations, driving the company's AI/ML developer experience and vector search strategy

HEVO DATA | SDE Intern – SaaS Integrations   Bengaluru, IN | Jan 2022 – Jun 2022

- Designed an end-to-end **REST API connector** and data pipeline **SDK** for Braze, implementing source object selection, polling strategies, SDK authentication, models, client, and ETL services
- Resolved production data pipeline bugs on connectors using **Sentry**/**Coralogix** and triaged **BigQuery** and **Marketo** on-call issues
- Authored unit tests for Outbrain connector using **JUnit 5** and **Mockito**, subject to code review

SAMSUNG INDIA | SDE Intern – IoT Products & Analytics   Bengaluru, IN | Jun 2021 – Jul 2021

- Designed and implemented **MQTT bridge** functionality in Moquette, an open-source lightweight **Java** MQTT broker
- Implemented a **socket programming system** for MQTT message transfer and a **lexical analyzer** to parse bridge configuration

SAMSUNG PRISM | Machine Learning Intern   Bengaluru, IN | Oct 2020 – Mar 2021

- Implemented ML algorithms and feature engineering to predict KPI values for eNodeB base stations and built an intelligent ranking system for orderly network restoration during failures

PROJECTS

FAMILIARISE -- CONSULTING WEB APP ↗   Next.js, Flutter, Prisma, Supabase, Redis | 2023 – Present

- Built a consulting web app with **Next.js**, **Flutter**, **Prisma**, and **Supabase**, integrating **Razorpay** payments, **Stream** video, and **Novu** notifications (237 PRs)

FINLAND LABS & IIT ROORKEE -- TIME SERIES FORECASTING ↗   Python, fbprophet

- Built time-series forecasting with **fbprophet** for COVID-19 case prediction and implemented neural networks from scratch for XOR gate function recognition

MICROSOFT STUDENT PARTNERS -- ML BOOTCAMP ↗   Python, XGBoost

- Led a team of 10 to build an ML pipeline for used car price prediction through EDA, feature engineering, and **XGBoost** regression

SKILLS

Languages: Python, TypeScript, Java, SQL, Bash
AI/ML: LangChain, LangGraph, LlamaIndex, PyTorch, TensorFlow, Crew AI, Arize Phoenix, Langflow
AI Services: OpenAI, Claude AI, Cohere, AWS Bedrock, Azure AI, Voyage AI, JinaAI, GraphRAG
Infra & Tools: Couchbase Capella, Docker, GitHub Actions, Git, React, Next.js, Supabase, Redis, Postman