

Kaustav Ghosh

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EDUCATION

Manipal Institute of Technology

B. TECH COMPUTER SCIENCE & ENGINEERING (w/ COMPUTATIONAL INTELLIGENCE)

Manipal, IN | 2018 – 2022

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**, enabling enterprise developers to build production-ready agentic applications
- Engineered a comprehensive RAG evaluation pipeline using **Arize Phoenix** with automated scoring across relevance, hallucination detection, QA accuracy, and toxicity, establishing quality gates for LLM-powered applications
- Built production RAG demonstrations integrating Couchbase vector storage with **Cohere**, **Voyage AI**, **JinaAI**, **Claude AI**, **Azure AI**, **AWS Bedrock**, and **Crew AI**, and implemented **GraphRAG** using Microsoft's framework for knowledge-graph-augmented retrieval
- Developed a **Langflow-Couchbase** integration enabling no-code construction of production RAG pipelines with Couchbase as the vector store, reducing time-to-prototype for AI applications
- Contributed over 149 pull requests across the couchbase-examples and Couchbase-Ecosystem organizations, driving the company's AI/ML developer experience and vector search strategy

HEVO DATA | SOFTWARE DEVELOPMENT ENGINEER INTERN

Bengaluru, IN | Jan 2022 – Jun 2022

- Designed an end-to-end **REST API connector** and data pipeline SDK for Braze, implementing authentication, polling strategies, and ETL services for automated data ingestion
- Debugged production data pipeline issues across connectors using **Sentry** observability and authored comprehensive **JUnit 5/Mockito** test suites

SAMSUNG PRISM | MACHINE LEARNING RESEARCH INTERN

Bengaluru, IN | Sep 2020 – Mar 2021

- Developed ML models with feature engineering techniques to predict KPI values for eNodeB base stations and built an intelligent ranking system for automated network restoration during failures

PROJECTS

FAMILIARISE -- CONSULTING PLATFORM ↗ NEXT.JS, FLUTTER, PRISMA, SUPABASE, REDIS | 2023 – PRESENT

- Built a full-stack consulting platform with **Next.js**, **Flutter**, **Prisma**, and **Supabase**, integrating **Razorpay** payments, **Stream** video recording, and **Novu** notifications across 237 pull requests

AI/ML RESEARCH PORTFOLIO ↗

PYTHON, PYTORCH, TENSORFLOW

- Implemented transformer architectures, GANs, deep Q-networks, and reinforcement learning agents including a chess-playing RL engine, contributing to multiple open-source AI repositories
- Built video enhancement models, stock price forecasting with time-series deep learning, and OCR pipelines, demonstrating breadth across computer vision, NLP, and sequential decision-making

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