# Kaustav Ghosh

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## 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 using **Capella vector database** with **LangGraph/LangChain/LlamaIndex** orchestration, and built an evaluation pipeline with **Arize Phoenix** for relevance, hallucination, and toxicity scoring
- Published connectors on the **GCP Looker Studio** marketplace and merged Couchbase source/destination connectors for **Airbyte** ELT, and built RAG integrations with **Cohere**, **Claude AI**, **AWS Bedrock**, and **GraphRAG**
- Built quickstart apps in **TypeScript/Next.js**, **Java/Spring Boot**, **Ruby on Rails**, and **PHP/Laravel** with **Docker**, **Swagger**, and **GitHub Actions** CI/CD
- Developed schema inference algorithms, a **React** import frontend, **MongoDB-to-Couchbase migration tools**, and expanded **React-TypeScript** test coverage from 60% to over 90% on the Capella cloud platform
- Contributed 149+ pull requests across two Couchbase organizations, spanning AI/ML integrations, SDK tooling, **IntelliJ IDEA** plugin features, and developer documentation

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

- Designed and implemented an end-to-end **REST API connector** and **SDK** for Braze (SaaS), building SDK auth, models, **Feign client**, polling strategies, and ETL services with socket error handling
- Resolved production bugs on connectors tracked by **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

- Developed ML models with feature engineering to predict KPI values for eNodeB base stations and built a ranking system for 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** and **Flutter** mobile, using **Prisma ORM**, **Supabase**, and **Redis** with role-based dashboards for consultants and clients
- Integrated **Razorpay** payments, **Stream** video, **Novu** notifications, booking algorithms, and migrated auth from NextAuth v4 to **BetterAuth** (237 PRs)

**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:** TypeScript, Python, Java, Dart, Ruby, PHP, SQL, Bash
**AI/ML:** LangChain, LangGraph, LlamaIndex, PyTorch, Crew AI, Arize Phoenix, Langflow
**Frameworks:** React, Next.js, Spring Boot, Flutter, Prisma, Express.js, Rails, Laravel
**Cloud & Data:** Couchbase, AWS Bedrock, Azure AI, Docker, GitHub Actions, GCP, Redis, Supabase
**Tools:** Git, IntelliJ IDEA, Swagger/OpenAPI, Postman, Jira, Confluence, JUnit, Mockito