

## PROFESSIONAL EXPERIENCE

Software Engineer — LTIMindtree | Pune, IN · June 2023 – Present

- **Streaming Data Pipelines:** Engineered high-performance pipelines for real-time integration of IT operations data into SQL and NoSQL databases, ensuring efficient and reliable data processing. (*Apache Spark, Kafka, Docker, Kubernetes, PostgreSQL, ArangoDB*)
- **AI Agent Orchestrator:** Developed and maintained the core orchestration layer for multi agent communication, including handling of contextual reference, memory management and decision routing. (*Python (POC), Spring Boot, Websockets, SSE, Kubernetes, LLMs*)
- **Data Pipeline Builder:** Created an intuitive GUI-based tool empowering data engineers and analysts to integrate data in a low-code environment. (*Vue.js, Spring Boot, Apache Spark, Kafka, Kubernetes, PostgreSQL*)
- **Ticket Classification Pipeline** - Designed and developed a machine learning pipeline to handle classification of IT Request and Incident tickets, improving operational efficiency. (*Catboost, FastAPI, Kafka, Sentence Transformers, LLMs, ArangoDB*)
- **EDA Chatbot** - Designed and built an RAG-powered chatbot that translates user prompts into SQL/NoSQL queries and returns insights through natural-language responses and interactive visualisations. (*FastAPI, LangChain, LLMs, RAG, Docker, Kubernetes*)
- **Pipeline Optimization:** Optimised legacy NoSQL streaming pipelines, reducing processing time by 25% by moving logic into Spark transformations and optimising joins. (*Apache Spark, Kafka, Docker, Kubernetes*)
- **Pipeline Observability:** Designed and engineered an audit system using Apache Spark for observability in streaming pipelines. (*Apache Spark, Kafka, Docker, Kubernetes, Elasticsearch*)
- **Batch Data Pipelines:** Developed batch pipelines integrating service catalog data, CIs and relationships for deep analysis. (*Apache Spark, Docker, Kubernetes, ArangoDB*)
- **Kafka Administration:** Setup and optimised a Kafka cluster on Kubernetes (Strimzi) with SSL encryption for secure, scalable event processing. (*Apache Kafka, Strimzi, Kubernetes*)

## TECHNICAL SKILLS

**Languages:** Java, Python, Rust, JavaScript, Bash, HTML/CSS

**Technologies:** Apache Spark, Spring Boot, FastAPI, Flask, Vue.js, LangChain, Apache Kafka, Docker, Kubernetes, Websockets, SSE, Git, CI/CD, Rocket.rs, Diesel.rs

**Databases:** PostgreSQL, MySQL, SQLite, ArangoDB, Elasticsearch, ChromaDB

## EDUCATION

Bachelor of Technology (B.Tech.) — **Electronics & Computer Engineering** Maharashtra Institute of Technology, Pune · May 2023

- **Capstone Project — Intelligent Traffic Light Control System:** AI object-detection based adaptive signal timing system.
- **Relevant Coursework:** Data Structures & Algorithms, Data Science and Analytics, DBMS, ML, AI, Computer Networks, Embedded Systems.

ISC — **Science** The Bishop's School, Pune · May 2019

ICSE — **Science** The Bishop's School, Pune · May 2017

## ACHIEVEMENTS AND AWARDS

- **Best Research Paper**, 5th National Conference on Innovative Global Technology Trends, MIT ADT University (2023)
- **Best Techie, Automation Batch 11**, LTIMindtree (2023)
- **Runner up, AptiSpark**, MIT Pune (2022)

## PROJECTS

- **RESTful API for Snake Game:** Built high-score management API using SQLite, Diesel and Rocket.
- **Flask to FastAPI Migration:** Migrated open-source project to uv package manager FastAPI and SQLAlchemy libraries, improving performance and dependency management.