

ADARSH KUMAR

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EDUCATION

International Institute of Information Technology
Bachelor of Technology (Computer Engineering) | Cumulative GPA: 8.30/10.00

August 2020 - May 2024
Bhubaneswar, India

TECHNICAL SKILLS

Languages	Java C++ HTML/CSS JavaScript SQL Python
Frameworks/Libraries	React.js Node.js Express.js Spring Boot Spring MVC Spring Batch FastAPI
Databases	MySQL PostgreSQL MongoDB
Cloud & Tools	Langchain LLMs RAGs AWS EC2 Azure Databricks Jenkins Git Docker

EXPERIENCE

Software Engineer July 2024 - Present
SmartRecon Tech Pvt Ltd, Hyderabad

- Architected and implemented **microservices-based, fault-tolerant ETL pipelines** processing **10M+ records** from **7+ banks, Oracle NetSuite, and Salesforce** using **Spring Boot, Spring Batch, Spring MVC, REST APIs, PostgreSQL**.
 - Developed **modular microservices** for data ingestion, transformation, and storage, enabling **independent deployment** and **fault isolation**.
 - Secured APIs with **JWT authentication** (NetSuite) and **OAuth token-based** flows (Salesforce).
 - Optimized performance with **hash-based partitioning, multithreading, and query tuning**, reducing runtime by **25%**.
 - Implemented **circuit breakers, retries, and fallback strategies** for resilient API communication in distributed environments.
- Developed a **low-latency, real-time log management system** using SLF4J and Logback to efficiently **filter and process logs** in a **distributed environment**.
 - Integrated **DB Appender**, designed **event-driven architecture**, and built a UI for log filtering & notifications.
 - Improved log efficiency by **30%** via **parallel processing, custom filters conditional logging**.
 - Optimized **query indexing caching**, enhancing database **performance for high-volume transactions**.
- Implemented **secure SFTP file retrieval** (password SSH key auth), integrated **Azure Databricks** for data ingestion and table creation, and configured **Azure OAuth, Okta OAuth, and Okta SAML SSO** for enterprise-grade authentication and single sign-on.
- Technologies:** Java, Spring Boot, Spring MVC, Spring Batch, PostgreSQL, REST APIs, Microservices Architecture, Event-Driven Architecture, Multithreading, JWT/OAuth/SAML Authentication, Docker, Jenkins, Git, Azure Databricks, SFTP.

AI Engineering Intern February 2024 - July 2024
AiOrdinate, Bengaluru

- RAG Chatbot Development:** Built a **Retrieval-Augmented Generation (RAG)** chatbot using **Streamlit** and **OpenAI API** to create **vector stores** from **PDFs, websites, and text inputs**.
 - Integrated **Langchain** for efficient document retrieval and response generation, improving response accuracy by **20%**.
- License Plate Fraud Detection Platform:** Developed a platform using **ReactJS, FastAPI, and OpenCV**, achieving **95% accuracy** in text extraction with **YOLOv8** and **PyTesseract**.
 - Integrated **WebSocket for low-latency streaming** from **RTSP feeds & optimization mathematics** for better classification.
- Technologies:** Python, LLMs, Optimization Algorithms, Graph Algorithms, ReactJS, MongoDB, FastAPI, OpenCV, YOLOv8, PyTesseract, WebSocket

PROJECTS

Semantic Spreadsheet Search Engine 🧠

- Developed a semantic search engine that interprets spreadsheet data **beyond keyword matching**.
- Implemented intent detection (**LOOKUP, CALCULATION, EXPLANATION, COMPARISON**) for natural queries.
- Built a **vector-based semantic search pipeline** using FAISS for efficient similarity matching.
- Enabled **multi-sheet contextual analysis** and **formula explanation** across Excel files.
- Integrated **Google Gemini API** for advanced natural language understanding and query processing.
- Technologies:** Python, NLP, FAISS, OpenPyXL, Google Gemini API

ACHIEVEMENTS

- HackNITR 3.0:** Advanced to the 2nd round in NIT Rourkela's HackNITR 3.0 Hackathon.
- CodeChef January Lunchtime 2022:** Ranked 474/9942 globally (Top 5%).
- Coding Ninjas Weekend Contest 103:** Ranked 974/30799 in India (Top 3%).