GYANENDER KUMAR JHA

Full-Stack AI Engineer — Java Spring Boot • Python • LLMs • RAG • Elasticsearch
New Delhi | +91 7428637288 | kgyanender4@gmail.com | LinkedIn | GitHub | Portfolio

PROFESSIONAL EXPERIENCE

Software Engineer | *Tata Consultancy Services, Noida* **Jul 2025 – Present**
Ministry of External Affairs | Project: PSP Application V2
Tech Stack: Java, Spring Boot, Elasticsearch, DB2, Redis

- Developing backend microservices for **PSP Application V2** using **Spring Boot**, **DB2**, **JDBC**, **SQL queries**, **stored procedures** supporting high-volume MEA workflows
- Implementing **Elasticsearch** indexing, analyzers and queries to improve search relevance and retrieval experience across citizen passport request data
- Participating in **Agile/Scrum**, collaborating with cross-functional teams during sprint planning, code reviews and production deployments

Data Scientist | *1GEN, Remote* **Nov 2023 – Aug 2024**

- Delivered **Generative-AI** use cases using **GPT-4**, **LangChain**, **FastAPI**, enabling AI assisted analytics and internal automation
- Designed and deployed secure **REST APIs** powering AI components, improving data accessibility across internal product modules
- Integrated **LLMs** with structured + semi-structured sources to enhance decision support workflows within products

Data Scientist Apprentice | *1GEN, Hybrid* **Jun 2021 – Nov 2023**

- Built ETL pipelines using **Python**, **Pandas**, **SQL** supporting data cleansing, feature engineering and analytics dashboards; exposed insights via **Flask APIs**

KEY PROJECTS

Technical Lead | M-agi-c Solutions

- Led cross-functional team to build **two full-stack products** (web and mobile); executed **AI-first architecture** with **AWS** (**Lambda**, **S3**, **EC2**)
- Implemented **CI/CD pipelines** using **GitHub Actions** and **Docker**, reducing deployment overhead by **70%**
- Built **AI agents** using **Langflow**, **LangChain**; integrated **vector databases** for **RAG**

AI Operations & Support Engineer | T2D2

- Built **AI-powered report generator** for automated diagnostics; developed **geospatial algorithms** using **OpenCV**, **YOLO**
- Implemented **IoU metrics** and **HITL** systems for enhanced **computer vision model** accuracy

Data Insights Platform | Acadia Data

- Built predictive funding model with **85% accuracy** using **ensemble methods**; created **RAG-based AI agent**
- Used **DVC** and **d6tflow** for reproducible **ML pipelines** and version control

TECHNICAL SKILLS

Programming: **Python**, **Java**, **SQL**, JavaScript, HTML5, CSS3
Backend: **Spring Boot**, **Flask**, **FastAPI**, Spring Data JPA, Hibernate, **Microservices**
AI/ML: **LLMs**, **RAG**, **NLP**, **Generative AI**, **GPT-4**, **Claude API**, **OpenAI API**, **LangChain**, **Langflow**, **Computer Vision**, **TensorFlow**, **PyTorch**, **scikit-learn**, **OpenCV**, **YOLO**
Data: **Pandas**, **NumPy**, **Matplotlib**, **Seaborn**, Plotly, Feature Engineering, **ETL**, **Spark**
Cloud: **AWS** (**Lambda**, **S3**, **EC2**), **CI/CD**, **GitHub Actions**, **Docker**, Git
Databases: **PostgreSQL**, **MySQL**, **Neo4j**, **MongoDB**, **DB2**, **Redis**, **Elasticsearch**, Vector DBs (Pinecone, Chroma)
Web: **RESTful APIs**, WebSockets
Tools: **Git**, Jupyter, **Postman**, **DVC**, Jira
Methods: **Agile/Scrum**, OOP

EDUCATION

Bachelor of Technology in Computer Science and Engineering **Dec 2020 – Jun 2024**
Guru Gobind Singh Indraprastha University (GGSIPU) | **CGPA: 9.41/10**

ACHIEVEMENTS & CERTIFICATIONS

Open Source: Agno framework - Google Auth, Calendar CRUD
Academic: Excellence Certificate & 3rd Prize (B.Tech CSE)
Professional: TCS Learning Achievement Award (ILP)
Certifications: Neo4j Professional, SQL (CodeChef, Coursera, DataCamp), Python (Udemy), HackerRank