

SANJEET PRASAD VERMA

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Github

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Software Developer with hands-on experience in full-stack web development, DevOps practices, and security testing. Currently working as a AI Engineer at **TCS**, where I've led Backend development using **Django**, implemented **CI/CD pipelines**. Strong background in **Java, Python, Docker, Machine Learning and AWS**, combined with practical exposure to **ethical hacking, and WAPT** through real-world vulnerability disclosures to government and university systems.

SKILLS

Programming Languages: Java, Python

Web: HTML, CSS, JavaScript, React.js, Express.js, Node.js, NoSQL, MongoDB, SQL, Postgres, Snowflake

Cloud & DevOps: AWS, Git, Github, CI/CD, Docker

Other Skills: AI/ML

EXPERIENCE

Tata Consultancy Services (TCS)

Dec 2024 – Present

➤ AI Engineer:

- Designed and developed a full-stack **RAG (Retrieval-Augmented Generation)** chat application enabling intelligent, context-aware responses using **GPT-4** integrated with graph-based knowledge retrieval (GraphRAG).
- Built the backend with **Flask**, implementing RESTful APIs to orchestrate prompt processing, document retrieval, and LLM response generation through **Azure**-hosted endpoints.
- Developed an interactive frontend using **React.js**, providing a seamless chat interface for document-based Q&A and enterprise chatbot use cases.

➤ Full Stack Developer

- Designed and developed an end-to-end **Data Annotation Tool** to accelerate the creation of high-quality labeled datasets, improving model training efficiency and accuracy.
- Built an interactive frontend using **React.js**, allowing users to intuitively annotate, review, and manage datasets with real-time feedback and streamlined workflows.
- Developed scalable backend services with **Django** and **REST APIs** to handle data versioning, task management, and role-based access control.
- **Containerized** the application using **Docker** and automated deployment through **CI/CD pipelines** integrating **Git** and **Jenkins**, ensuring rapid, reliable delivery.

PROJECTS

AI-Powered Chat Application with Sentiment Analysis

Tech Stack: Spring Boot, Python, React, WebSocket, Postgres

- Developed a real-time chat application that integrates AI-based sentiment analysis using model trained on dataset from **Hugging Face**.
- Built REST and WebSocket APIs using **Spring Boot** to manage messaging and user authentication, while a Python **microservice** handled natural language sentiment detection.
- Integrated React frontend to display chat sentiment feedback.

EDUCATION

Dr. Shyama Prasad University, Ranchi

2021 – 2024

Bachelors in Computer Application (8.33 CGPA)