

ANKITA SINGH

Gurugram, India

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SKILLS

Languages: Java, Python, TypeScript, JavaScript, Go, Data Structures & Algorithms (DSA), Object-Oriented Programming (OOP)

Frameworks & Libraries: ReactJS, FastAPI, Selenium, Cucumber, Playwright, Cypress, LangGraph, Transformers, scikit-learn, TensorFlow, PyTorch, RESTful APIs, Bug Tracking Tools

Databases & Messaging: PostgreSQL, MongoDB, Pinecone, ChromaDB, VectorDB, Kafka, CI/CD pipeline

Tools & AI: Git, Postman API Testing, LLM-Powered Test Analysis, Groq LLM, LLaMA 3.1/3.2, Prompt Engineering, JWT, pandas, NumPy, JWT, pandas, NumPy, E2E Testing, Regression Testing, Test Execution, Automation Testing, Test Strategy, UI Testing, Test Scripts, Test Plans

WORK EXPERIENCE

Proeffico Solutions Pvt Ltd.

May 2025 – July 2025

Software Engineer

- Built a medical health chatbot using **LLaMA 3.2** and **LangGraph**, applying **supervised learning** for disease classification and **feature engineering** on 1mg.com data to deliver structured treatment recommendations.
- Fine-tuned **LLaMA 3.2 1B** with **custom embeddings** and **LoRA adapters**, improving medicine-mapping accuracy by **75%**, tracked via **F1-score**, **precision**, **recall**, while mitigating overfitting with **cross-validation**.
- Designed an **LLM-driven Email Agent** with **Transformers**, **ChromaDB**, and **Pinecone**, enabling **semantic classification** and **automated follow-up triggers** across 1K+ school emails.
- Developed **async FastAPI pipelines** with **JWT auth** and **Redis checkpointing**, powering **secure, real-time AI apps** with **context-aware orchestration**.

Xenonstack, Mohali

Jan 2024 – April 2025

Associate Software Engineer

- **Developed Agent QA**, an AI-powered QA automation platform using **FastAPI**, **PostgreSQL**, **Redis**, **WebSockets**, **Playwright**, and **Groq LLM**; automated **500+ test cases**, reduced manual testing by **70%**, and improved bug resolution time by **60%**.
- Built **scalable microservices** for **real-time test orchestration** and **100+ concurrent multi-browser executions** (**Chromium**, **Firefox**, **WebKit**), boosting infrastructure efficiency by **40%**.
- Created a **React.js dashboard** with **20+ reusable components** and integrated a **multi-agent AI system**, increasing **test visibility by 80%** with features like file uploads, video/HTML reports, and session-aware chat history.
- Automated **cloud-scale metadata and infrastructure validation** across **400+ AWS accounts** with **Python (Boto3)**, **Cloud Grazer**, and **shell scripts**, cutting manual effort by **70%** and enhancing audit readiness.
- **Contributed to GenAI and Akira AI internal projects** by designing and deploying **RESTful APIs with FastAPI & PostgreSQL**, delivering reliable backend services and improving scalability and performance.

PROJECTS

AI-Powered Interview Screening Platform

Tech Stack: Golang (Gin), Python (FastAPI), Redis, Kafka, PostgreSQL, AWS S3, React TS

- **Built a full-stack AI interview screening platform** that generates 10 dynamic LLM-based questions and records user video responses, enabling interview attempts with or without login.
- **Developed Golang microservices** for authentication, session-based access using Redis, resume uploads to AWS S3, and structured data storage in PostgreSQL.
- **Implemented Kafka-based asynchronous communication** between services to handle resume parsing, user activity logs, and interview insights at scale
- **Created a FastAPI-based AI service** that parses resumes, generates personalized interview questions, performs video transcription, and returns detailed answer-quality feedback

EDUCATION

Lovely Professional University

Aug 2020 - Jun 2024

Bachelor of Technology, Computer Science Engineering

AWARDS AND CERTIFICATES

- Solved **300+ DSA problems** across platforms like **LeetCode** and **HackerRank**.
- Azure Administrator Associate
- **Generative AI Course** With **Langchain** and **Huggingface**