

# Nitish Jha

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GitHub | Portfolio | LeetCode

## ACCOMPLISHMENTS

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- Received the **ACE Award** for exceptional performance and high-impact contributions in **Agentic Studio** initiatives.
- Promoted to **Senior Analyst** ahead of timeline, before completing **2 years**, based on consistent high performance and delivery impact
- Achieved a **Global Rank of 81** among 25,000+ participants in CodeChef OCT21C.
- Secured **8th rank in Skill Wars** (HackerRank) organized by the university.

## WORK EXPERIENCE

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### Accenture

AI/ML Computational Science Senior Analyst

Bengaluru, India

August 2023 – Present

- Worked on **enterprise GenAI** products for SDLC automation, code generation, and knowledge retrieval assistants.
- Built and productionized enterprise **GenAI systems** leveraging **agentic AI + RAG**, using **CrewAI, AutoGen, LangGraph, and Google ADK** to automate multi-step planning, execution, and tool-based reasoning.
- Developed a multi-agent code generation platform using FastAPI + MCP (Model Context Protocol) + A2A (Agent-to-Agent) collaboration, reducing manual engineering effort by 55–65% and accelerating delivery by 30–40%.
- Delivered **Flask + LangChain LLM APIs** (GPT-4, Gemini, Claude) to transform user stories/requirements into structured technical outputs, cutting manual work by **35–45%** and improving consistency via **prompt engineering + evaluation** (dropping inconsistencies by **25–35%**).
- Designed and optimized **production RAG pipelines** (ingestion, chunking, embeddings, retrieval, grounded generation) using **Chroma + PGVector**, improving answer relevance by **20–30%**, while owning POC to production delivery, CI/CD (**Azure DevOps**), testing (**Postman**), and mentoring **2–4 juniors** to reduce rework by **20–25%**.

### Samsung

Research Intern

Bengaluru, India

November 2021 – August 2022

- Developed a library to predict runtime memory usage across different application components.
- Collaborated with batchmates and mentors to design, implement, and validate memory usage estimation logic.
- Documented findings and supported integration of the library into internal workflows for benchmarking and analysis.

## PROJECTS

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### Document QnA Agent (RAG-based)

LangChain, LangGraph, FAISS, Flask, OpenAI

- Built a RAG-based agent to answer queries across uploaded documents with grounded, context-aware responses.
- Improved answer quality by tuning chunk sizes and retrieval parameters to increase relevance.

### Bio-mechanic Parkinson's Disease Analysis

Machine learning, Flask

- Built an ML-based Parkinson's risk assessment platform using video-based features and classification models.
- Deployed inference via Flask API to provide users a simple prediction workflow.

## SKILLS

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- **GenAI Frameworks:** LangGraph, CrewAI, AutoGen, LangChain, GoogleADK, Prompt Engineering, RAG Systems
- **Vector Databases:** ChromaDB, PGVector, FAISS
- **Backend Frameworks:** FastAPI, Flask
- **Languages/Tools:** Python, SQL, MCP (Model Context Protocol), A2A (Agent-to-Agent), Azure OpenAI, OpenAI API, AWS Bedrock, Azure DevOps
- **Developer Tools:** Git, GitHub, VS Code, Jupyter Notebook, Postman, pgAdmin
- **Databases:** PostgreSQL, MongoDB

## EDUCATION

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### Vellore Institute Of Technology (VIT)

B.Tech in Computer Science and Engineering (GPA: 8.53)

Vellore, India

2019 – 2023