Nithish Ariyha K

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EDUCATION

Amrita Vishwa Vidyapeetham	June 2026
B.Tech Computer Science with specialization in Artificial Intelligence	*Current CGPA: 9.4/10.0*
Sri Chaitanya Techno School	June 2022
AISSCE	*92 %*
Shri Swamy Public School	May 2020
AISSE	*91 %*

EXPERIENCE

Bank of New York | *Software Developer Intern*   *May 2025 - July 2025*

- Hardened unit and end-to-end test coverage of critical components by 45%, lowering production incidents
- Refactored CI/CD pipelines and optimized build steps, reducing average build + deploy time by 30%
- Remediated critical security issues by performing static analysis and patching vulnerabilities; improving code quality and bringing services in line with organizational standards.

SKILLS

Programming Languages: Java Python, C, C++ , Kotlin, JavaScript, Dart, Rust, LaTeX
Frameworks & Libraries: Jetpack Compose, Flask, React, Next.js, Angular, PyTorch, Scikit-learn, OpenCV, Flutter
Databases: PostgreSQL, MongoDB, Redis
DevOps & Cloud: Git, Bash, Azure, GitLab CI/CD, Docker
Methodologies & Concepts: SDLC, Agile, OOP, DSA, RESTful APIs,Machine Learning, Deep Learning, NLP, CV

PROJECTS

SignSpeak | *Python, PyTorch, Flask, Flutter, MongoDB*   *GitHub* | April 2025

- Architected and trained MobileNet-based CNNs, for real-time multilingual sign language recognition and translation.
- Achieved 98% accuracy with a sign-to-text model across multiple languages, showing strong cross-lingual performance.
- Deployed the model in a mobile app with offline inference ($<$2s) and learning paths to boost accessibility and adoption.

RagGit | *Python, PyTorch, Flask, CrewAI, Gemini, Git*   *GitHub* | April 2025

- Engineered an LLM-powered chatbot leveraging Gemini API and Agentic RAG to provide insights and query about Git repositories.
- Designed multi-agent intelligence for file pattern & dependency mapping with 80% accuracy.
- Enabled on-the-fly repo cloning, updating & analysis, cutting manual work by 60%.

Hospital Management System | *Go, Python, Redis, Azure, PostgreSQL*   *GitHub* | November 2024

- Designed a system to manage hospital operations and reduce manual tasks by 40%.
- Implemented Redis caching and Azure services with PostgreSQL to maintain 99.9% uptime.
- Used an Azure AI services based API for a personalized chatbot

CERTIFICATIONS

Oracle Cloud Infrastructure 2024 Generative AI Certified Professional | *Oracle*	July 2024
Generative AI with LLM | *Coursera*	March 2024

EXTRACURRICULARS AND ACHIEVEMENTS

Leet Code

- Completed over 200 problems on LeetCode with varying difficulty ranges

GATE 2025   March 2025

- Secured All India Rank of **178** in GATE 2025 (Data Science Branch)

Amazon ML Hackathon   September 2024

- Secured 81st position in the Amazon Machine Learning Challenge

IETE   November 2024 - May 2025

- Helped in hosting AI workshops, DevXs website building challenge and building club's official website

RESEARCH & PUBLICATIONS

Political Sentiment Analysis of Tamil X(Twitter) Comments using LaBSE and SVM
Fifth Workshop on Speech, Vision, and Language Technologies for Dravidian Languages
Workshop Proceedings | **Rank 5** *in shared Task*   May 2025

Enhancing Dysarthric Speech for Improved Clinical Communication: A Deep Learning Approach
Machine Learning and Deep Learning Modeling and Algorithms with Applications in Medical and Health Care
Book Chapter (Accepted and In Publication)   May 2025