Nidhi Iyer

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Education

ICFAI Foundation for Higher Education — Hyderabad, India
- B.Tech in Computer Science and Engineering, CGPA: 8.02   Jun 2022 – Jun 2026

Experience

TalentSprint, Part of Accenture — Hyderabad, India
Software Engineering Intern   Jun 2024 – Aug 2024
- Architected an AI-powered LMS using RAGs and a graph-based recommendation system with Neo4j.
- Fine-tuned an LLM with Ollama while ensuring resistance to prompt injection.
- Assisted in developing SaaS microservices, focusing on API integration in distributed systems.
- Demoed the project to leadership, earned commendation and mentored 200 students.

Projects

RouteGenie   Jun 2025 – Jul 2025
Tech Stack: Flutter, Dart, FastAPI, Python, GCP, Git, Android Studio, Android SDK, SQL   Demo   GitHub
- Created a cross platform app and admin dashboard to compute delivery statistics and routes.
- Integrated FastAPI backend to compute time, fuel, and traffic optimizations with 5+ features.

QSecure   Feb 2025 – May 2025
Tech Stack: Python, AST, scikit-learn, Tree-sitter, TCP/IP, SimPy   GitHub
- Developed a language-agnostic scanner detecting 10+ quantum vulnerable cryptographic patterns.
- Enabled migration with 4 NIST-approved algorithms, validated via TCP/IP-based network simulations.

WE Arcade *Open Source Project*   Sep 2024 – Mar 2025
Tech Stack: HTML, CSS, JavaScript, React js, Phaser js, Git, Figma   Link   GitHub
- Oversaw a GitHub organization of 100+ contributors building 8+ browser games.
- Maintained modular design, code reviews and unit testing across 10+ agile teams.

SconeVision   Aug 2024 – Sep 2024
Tech Stack: Amazon SageMaker, AWS Lambda, AWS Step Functions, Amazon S3, PyTorch   GitHub
- Automated an MLOps pipeline using AWS services for real-time inference on delivery vehicles.
- Deployed a computer vision model on AWS SageMaker, achieving 97.68% training accuracy.

Certifications

Smart Interviews Certificate   May 2025 - [Present]
- 150+ problems solved from topics ranging from bit manipulation to linear and non-linear data structures.

AWS Academy Cloud Foundations *Certificate*   Jan 2025 - Apr 2025
- Finished 20+ hours of AWS training, covering EC2, S3, EBS, Lambda, Beanstalk, IAM, and CLI.

Shubhra Kar Linux Foundation Training (LiFT) Scholarship Certificate   Jul 2024 – May 2025
- 35+ hours of Kubernetes Application Development topics ranging from Pods to Helm and Kustomize.

Amazon Web Services AI/ML Scholarship Certificate   Oct 2023 – Oct 2024
- 10+ AI/ML projects ranging from CLI image classifier to a complete MLOps pipeline using AWS services.

Google Women Engineers Program Certificate   Mar 2023 – Mar 2025
- 2 years of training on DSA, System Design, GenAI, ML, Problem Solving and graduated as class representative.

Achievements

Smart India Hackathon   Sep 2024 – Dec 2024
- **Top-5** (National): Processed non-machine-readable documents using Surya OCR and analyzed outputs.

Amazon Web Services Gen AI Hackathon   Aug 2024 – Sep 2024
- **1st prize** (College): AI-powered fitness trainer with Claude Sonnet, Stable diffusion XL using AWS PartyRock.

Research

Arrhythmia Detection (Research Assistant)   Ongoing
- Devised a ResNet–BiLSTM–Attention model for 61-class ECG arrhythmia, attaining 70% accuracy.

Skills

Languages:	Python, C, Java, C++
Cloud and DevOps:	AWS (Lambda, SageMaker, EC2, S3, EBS, IAM, CLI), GCP, Docker, Kubernetes
Platforms:	Linux (Fedora, Ubuntu), Jupyter, Git
AI/ML and Data:	PyTorch, OpenCV, TensorFlow, Ollama, MongoDB, SQL, Neo4j
Key Courses:	Database Management Systems, Operating Systems, Computer Networks