

# Lohith Kola

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## EDUCATION

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**International Institute of Information Technology Hyderabad (IIIT-H)** Hyderabad, India  
*B.Tech in Computer Science and Engineering* 2024 – 2028

- Relevant Coursework: Data Structures and Algorithms, Introduction to Software Systems, Data and Applications, Embedded Systems Workshop, Internet of Things (IoT)

## EXPERIENCE

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**Student Developer** Nov. 2025 – Present  
*International Institute of Information Technology Hyderabad (IIIT-H)* Hyderabad, India

- Designed and implemented a post-stay feedback module for a guesthouse booking system using PHP and MySQL
- Built backend-driven eligibility checks to prevent duplicate submissions and ensure data integrity

**Software Development Intern** Jan. 2025 – May 2025  
*Smart City Living Lab @ IIIT-H* Hyderabad, India

- Developed Android features for real-time environmental monitoring using REST APIs and sensor data
- Implemented data visualization modules and custom home-screen widgets

## PROJECTS

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**ShotIQ — NBA Shot Prediction Platform** | *Python, XGBoost, FastAPI, Supabase, React* Dec. 2025 – Present

- Designed and deployed an ML-powered NBA shot prediction system trained on 3.6M+ historical shots spanning 18 seasons
- Performed feature engineering on spatial, temporal, and action-based attributes and evaluated XGBoost models for accuracy and generalization
- Built and integrated FastAPI-based prediction and analytics APIs with an interactive frontend supporting heatmaps, shot charts, and player comparisons

**Tangent — H-1B Petition Management Platform** | *Next.js, TypeScript, Supabase* May 2025 - Aug. 2025

- Developing a full-stack web platform to streamline H-1B petition workflows for startups, including employer onboarding and document management
- Implemented role-based authentication, secure file uploads, and structured employer–employee–attorney workflows

**SLM Sustainability Benchmarking on QIDK** | *Edge AI, Performance Analysis* Aug. 2025 – Dec. 2025

- Built an edge AI benchmarking framework to evaluate Small Language Models across QA, summarization, and RAG workloads
- Collected per-query metrics including accuracy, latency, energy consumption, and carbon emissions using device-level profiling

**Distributed File System (Docs++)** | *C, TCP Sockets, Concurrency* Oct. 2025 – Nov. 2025

- Implemented a Google Docs–inspired distributed file system using a Name Server and multiple Storage Servers
- Designed support for permissions, concurrency control, replication, and fault tolerance using TCP-based communication

**C-Shark — CLI Packet Sniffer** | *C, libpcap* Oct. 2025

- Built a libpcap-based CLI packet sniffer with live traffic capture, protocol filtering, and deep packet inspection

**C-Shell — Unix-like Shell** | *C, POSIX* Sep. 2025

- Implemented a Unix-like shell with command parsing, process control, I/O redirection, and built-in commands

## TECHNICAL SKILLS

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**Languages:** Python, C/C++, Java, JavaScript, SQL  
**Machine Learning:** XGBoost, Scikit-learn, pandas, NumPy, Matplotlib  
**Web & Backend:** React, Node.js, Express, Flask, FastAPI  
**Systems:** Linux, POSIX system calls, Git, Docker  
**Databases:** PostgreSQL, MongoDB