

Niharika Banothu

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Education

NIT Bhopal <i>M.Tech in Artificial Intelligence</i>	August 2025 – August 2027 CGPA: 7.45
Kakatiya Institute of Technology and Science, Warangal <i>B.Tech in Electronics and Communication Engineering</i>	January 2021 – January 2025 CGPA: 6.45
Suvidyaa Junior College for Girls, Warangal <i>Intermediate</i>	January 2018 – January 2020 83.2%

Skills

Programming Languages: Python, C, MATLAB

Technical Skills: Digital Electronics, Machine Learning, Natural Language Processing

Tools & Technologies: LangChain, OpenAI, Tesseract OCR, FastAPI, Arduino, Embedded C

Industry Experience

BSNL Communication <i>Intern</i>	May 2023 Hyderabad
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Projects

Document Intelligence System (OCR + Gen-AI)

Technology Stack: Python, LangChain, OpenAI/Llama-3, Tesseract OCR, FastAPI

- Built an AI-driven workflow to extract text, tables, and key fields from PDFs and scanned documents
- Automated summaries, structured outputs (JSON/Excel), and anomaly detection via LLM-based parsing
- Implemented OCR + LLM hybrid pipeline for accurate extraction from low-quality enterprise documents

Amazon Rep – NLP-Based Purchase Decision Support System

Technology Stack: Python, NLP, Machine Learning, Text Preprocessing, Data Analysis

- Built an NLP-driven system to analyze Amazon product reviews and assist customers in making informed purchasing decisions
- Performed sentiment analysis and review credibility assessment to enhance transparency and trust in e-commerce platforms

Smart Parking System Using Arduino

Technology Stack: Arduino, Ultrasonic/Infrared Sensors, Embedded C, LEDs, Automation Systems

- Designed and implemented a smart parking management system to optimize parking space utilization and reduce traffic congestion in urban areas
- Used ultrasonic/infrared sensors to detect parking slot availability and guided drivers through LED indicators and automated entry/exit mechanisms

Certifications

Python Data Structures and Algorithms (02/2026)

LinkedIn Learning

LearnFlu (06/2024 - 08/2024)

Vlsi program with AICTE approved (internship)

Bharat Sanchar Nigam Limited (06/2023 - 06/2023)

offline training internship