

Mohak Nahata

Guwahati, Assam

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SUMMARY

Computer Science student with experience building intelligent systems, full-stack applications, and scalable software solutions across software engineering, machine learning, and multi-agent AI systems.

EDUCATION

Vellore Institute of Technology B.Tech in Computer Science Engineering and Business Systems, CGPA: 9.18	2023 – 2027 Vellore, India
Royal Global School AISSE, 93.4%	2022 – 2023 India

RESEARCH & INNOVATION

LLM-Based Adaptive Task Triage System	Patent Filed
– Filed a patent for an LLM-based task prioritization system leveraging contextual embeddings and adaptive routing. – Designed decision logic to improve response efficiency and prioritization in dynamic environments.	

EXPERIENCE

Bharti Airtel Software Engineering Intern – Airtel Xstream DTH Team	2026 India
– Developed frontend screens for the Bundling User Journey supporting customer onboarding and subscription workflows. – Contributed to accessibility improvements and usability enhancements across Xstream DTH interfaces. – Performed end-to-end testing and validation of user flows to improve application reliability and customer experience.	

PROJECTS

TravelOS – Multi-Agent AI Travel Planning Platform	2026
– Built an AI-powered travel planning platform using LangChain, LangGraph, and LLM agents to automate itinerary generation and trip coordination workflows. – Designed specialized agents for flights, accommodation, budgeting, and activities to support end-to-end travel planning. – Implemented contextual memory and adaptive routing mechanisms to deliver personalized recommendations and dynamic itineraries.	
EvacAI – Intelligent Emergency Evacuation System	2026
– Developed an AI-driven evacuation system capable of generating optimized evacuation strategies during emergency scenarios. – Integrated environmental, occupancy, and route information to dynamically adapt evacuation paths under changing conditions. – Built simulation and evaluation pipelines to analyze evacuation efficiency and improve response outcomes.	
NudgeFlow – AI-Powered Microhabitat Tracking Platform	2026
– Built a full-stack microhabitat tracking platform using React, Node.js, and MongoDB to encourage sustainable habit formation. – Implemented personalized nudges, adaptive reminders, and progress analytics based on user engagement patterns. – Designed dashboards to visualize consistency trends and improve long-term retention and habit adherence.	

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, SQL, R

Frontend: React, HTML, CSS, Material UI

Backend: Node.js, Express, FastAPI, REST APIs

AI/ML: PyTorch, Scikit-learn, LLM Applications, Multi-Agent Systems, Applied ML Pipelines

Databases: MongoDB, MySQL

Tools: Git, Docker, Linux

CERTIFICATIONS

IBM Generative AI using WatsonX

Merit Academic Scholarship – First Year and Second Year