

# Ayush Kumar

Bhubaneshwar, Odisha | P: +91 9348366277 | kumar.ayushx24@gmail.com



## EDUCATION

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### KIIT UNIVERSITY

Bachelor of Technology  
Major in Computer Science Engineering  
Cumulative GPA: 8.11

Bhubaneshwar, Odisha  
Expected May 2026

## PROJECTS

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### Disease Diagnosis System

Jan 2025

- **Developed an AI-driven Disease Diagnosis System** leveraging machine learning and deep learning to analyze medical data for accurate disease detection.
- **Designed and deployed a web/app-based interface** integrating the Gemini API for real-time disease prediction and patient data processing.
- **Designed a user-friendly system accessible via web and mobile**, enabling individuals, including those in rural areas, to perform preliminary disease diagnosis from home.

### Clinical Decision Support System

Mar 2025

- **Built an AI-powered Clinical Decision Support System** using FastAPI, React, and Phi-3 LLM to parse medical reports into structured JSON (diagnosis, medications, vitals).
- **Integrated local LLM inference** with **llama-cpp-python**, enabling secure, offline NLP processing without external API dependencies.
- **Designed a modular architecture** for scalable healthcare AI tools, including report scanning, triage assistance, and clinician dashboard modules.

### FoodWise

May 2024

- Developed **FoodWise**, a full-stack food scanner web app integrating **React, Node.js, MongoDB**, and **Open Food Facts API** for personalized dietary compatibility checks.
- Implemented **real-time barcode scanning** using **html5-qrcode** with user-defined dietary preferences and allergy detection.
- Designed a **responsive, cross-platform UI** ensuring seamless experience on both desktop and mobile devices.

## ACTIVITIES

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- **Published a research paper** titled "*Optimizing Offshore Wind Turbine Placement Along the Indian Coast: A Data-Driven Approach for Maximized Energy Generation and Minimal Climatic Impact*" in **IJSET**
- Achieved a top 10 ranking in "Kryptic Hunt" organized by MLSA KIIT.
- Secured **2nd Position** in **FusionHacks - International Hackathon**.
- Qualified for NetElixir Algnition.
- Qualified for 2 out of 3 rounds in Fetch's AI Agent Hackathon.

## ADDITIONAL

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- **Database Management** :- MongoDB, MySQL, Postgres
- **FrontEnd Development** :- NextJs, React, Vue.js, Angular
- **BackEnd Development** :- ExpressJs, Spring Boot
- **Programming Languages** :- C, C++, JAVA, Python, TensorFlow
- **Cloud Platforms**:- GCP, Azure, AWS
- **Version Control**: Git