

# Ayush Kumar

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



## EDUCATION

### KIIT UNIVERSITY

Bachelor of Technology

Major in Computer Science Engineering

Cumulative GPA: 8.11

Bhubaneshwar, Odisha  
Expected May 2026

## PROJECTS

### 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

- 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 3 rounds in Fetch's AI Agent Hackathon.

## ADDITIONAL

- 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