Gaurav Kumar

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EDUCATION

KIIT UNIVERSITY

Bhubaneswar, Odisha

B.Tech in Computer Science

Expected June 2026
CGPA: 8.54/10.0

DKC RESI HIGH SCHOOL

Ara, Bihar | Graduated May 2022
Aggregate: 88.20%

LINKS

LinkedIn:// gkp0211
GitHub:// Gaurav-3002

COURSEWORK

- Operating Systems
- Database Management Systems
- Machine Learning (ML)
- Artificial Intelligence (AI)
- Data Structures and Algorithms
- Computer Networks
- Data Mining & Data Warehousing
- Software Engineering
- Software Project Management
- Distributed Operating System
- Computer System Organization

SKILLS

Programming Languages:

Python •Java •MySQL •C

Machine Learning:

Scikit-learn •Pandas •NumPy
Matplotlib •Seaborn •NLTK
XGBoost

Tools & Technologies:

Git •GitHub •IntelliJ •VS Code
PyCharm •Google Colab
Jupyter Notebook

Miscellaneous:

TensorFlow •NLP •NLTK

Can Speak

Hindi, English

POSITIONS

Student Member | 2025-Present

Student Member at IEEE (Institute of Electrical and Electronics Engineers) Bhubaneswar Section

Student Volunteer | 2023

Part of student volunteer body in Khwaab Society
(A Social Service Society at KIIT)

PROJECTS

CROP & FERTILIZER RECOMMENDATION SYSTEM

- **Description:** Developed a machine learning-based system to recommend optimal crops and fertilizers based on soil and weather conditions.
- **Technology Stack:** Python, Flask, Scikit-learn, Pandas, Numpy, Random Forest Classifier.
- Implemented Random Forest Classifier to predict suitable crops and fertilizers based on nitrogen, phosphorus, potassium, pH, and climate data.
- Designed a Flask-based web application for an intuitive user interface, enabling farmers to input soil parameters and receive real-time recommendations.

DISEASE PREDICTION SYSTEM

- **Description:** Developed a web-based machine learning system that predicts diseases based on symptoms provided by the user using a majority-voting mechanism.
- **Technology Stack:** Python, Flask, Scikit-learn, Pandas, NumPy, HTML, CSS, JavaScript.
- Implemented an ensemble model architecture where predictions from RFC, Naive Bayes, and SVC are aggregated using a voting system to determine the final disease prediction.
- Serialized trained models using Pickle for efficient deployment and reduced runtime latency during prediction.

AI-Powered-Health-Chatbot

- **Description:** Designed and built an intelligent virtual health assistant capable of providing personalized medical advice using cutting-edge Natural Language Processing (NLP) models.
- **Technology Stack:** Frontend: Streamlit, Backend: FastAPI, JWT Authentication
  AI Models: MedBERT (classification), BioGPT (response generation)
  Database: SQLite, Other Tools: Docker (planned for deployment)
- Implemented secure user login and chat history management using FastAPI and SQLite.
- User queries are classified using MedBERT, and BioGPT generates relevant medical responses while the Streamlit interface connects with a FastAPI backend, storing data securely in SQLite.

CERTIFICATIONS

- Viasat: Space For Good India University – Phase 2
  Issued: May 4, 2025 | Certificate ID: gkzdjba9spy
- Git, GitHub & Markdown Crash Course Certificate, Issuer: Udemy
- Postman API fundamentals Student Expert
- Girl Script Summer of Code Extended (GSSOC) Contributor Certificate
  Credential: GSSOC_EXT_45562E1s
- AI Transformative Internship (TechSaksham Initiative)
  Issued by: Microsoft, SAP (AICTE) | Credential: TSPIN24_613857

INTERESTS

Playing Chess, Coding, Travelling and Sketching

SUMMARY

Driven and curious developer with a passion for building innovative solutions. Continuously learning and adapting, I thrive on solving real-world problems through clean, efficient code. Eager to contribute strong technical and analytical skills to forward-thinking teams.