

Himanshu Singh

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EDUCATION

KIET Group of Institutions

Bachelor of Technology in Computer Science

Ghaziabad, U.P

2023 – 2027

St. George's College

Intermediate Education

Agra, U.P

2020 – 2022

EXPERIENCE

MLSA (Microsoft Learn Student Ambassador), KIET

KIET Group of Institutions

June 2020 – Present

Ghaziabad, U.P

- Created a web application with responsive front-end and RESTful back-end, improving performance by 25% overall user experience.
- Developed a full-stack web application using Flask, React, PostgreSQL and Docker to analyze GitHub data
- Explored ways to visualize GitHub collaboration in a classroom setting

PROJECTS

AI-Powered Crop Yield Prediction and Optimization | Python, React, SQL, Docker

October 2025

- Designed and implemented an AI-based system to predict crop yields by analyzing real-time weather, soil, and rainfall data to help farmers make smarter cultivation decisions
- Used machine learning models to identify key factors affecting crop productivity and suggested optimized fertilizer and irrigation plans to maximize yield.

Lung cancer detection using machine learning | Python, ML

- Developed a machine learning model for early lung cancer detection using classification algorithms (Logistic Regression, Random Forest, CNN), trained on medical imaging and patient data to predict cancer probability data preprocessing, feature extraction, and model evaluation using Python, Pandas, NumPy, Scikit-learn, and TensorFlow, achieving high accuracy and precision in detection results.
- Deployed the trained model through a Flask / Streamlit web app, enabling real-time image upload and cancer prediction with a user-friendly interface for healthcare demonstration purposes.

ACHIEVEMENTS

SIH(SMART INDIA HACKATHON)–Internal Finalist

2025

At Institute Level

- Secured 44th Rank among 600 teams that participated in the Internal Hackathon

8BIT KIET INNOTECH Tech Fest (Smart Solutions Category))

- Selected at Department level, participated at Institute level

TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript, HTML/CSS

Frameworks: React, Node.js, JUnit, FastAPI

Developer Tools: Git, Docker, VS Code, Visual Studio, IntelliJ

Libraries: pandas, NumPy, Matplotlib