

# Himanshu Singh

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## EDUCATION

<b>KIET Group of Institutions</b> <i>Bachelor of Technology in Computer Science</i>	Ghaziabad, U.P 2023 – 2027
<b>St. George's College</b> <i>Intermediate Education</i>	Agra, U.P 2020 – 2022

## EXPERIENCE

<b>MLSA (Microsoft Learn Student Ambassador), KIET</b> <i>KIET Group of Institutions</i>	June 2020 – Present Ghaziabad, U.P
<ul style="list-style-type: none"><li>Created a web application with responsive front-end and RESTful back-end, improving performance by 25% overall user experience.</li><li>Developed a full-stack web application using Flask, React, PostgreSQL and Docker to analyze GitHub data</li><li>Explored ways to visualize GitHub collaboration in a classroom setting</li></ul>	

## PROJECTS

<b>AI-Powered Crop Yield Prediction and Optimization</b>   <i>Python, React, SQL, Docker</i>	October 2025
<ul style="list-style-type: none"><li>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</li><li>Used machine learning models to identify key factors affecting crop productivity and suggested optimized fertilizer and irrigation plans to maximize yield.</li></ul>	
<b>Lung cancer detection using machine learning</b>   <i>Python, ML</i>	
<ul style="list-style-type: none"><li>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.</li><li>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.</li></ul>	

## ACHIEVEMENTS

<b>SIH(SMART INDIA HACKATHON)–Internal Finalist</b> <i>At Institute Level</i>	2025
<ul style="list-style-type: none"><li>Secured 44th Rank among 600 teams that participated in the Internal Hackathon</li></ul>	
<b>8BIT KIET INNOTECH Tech Fest (Smart Solutions Category)</b>	
<ul style="list-style-type: none"><li>Selected at Department level, participated at Institute level</li></ul>	

## 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