

AKSHAY KUMAR

+91-7906841108 | choudharyakshay958156@gmail.com | [linkedin.com/in/akshaych5](https://www.linkedin.com/in/akshaych5) | github.com/akshaych5

Vill-Manohara, Saharanpur, Uttar Pradesh, India

OBJECTIVE

Enthusiastic and dedicated Computer Science student with a strong foundation in programming, web development, and problem-solving. Passionate about building intelligent systems and real-world applications spanning machine learning, deep learning, and full-stack development. Seeking to apply my technical knowledge and hands-on project experience in a dynamic and growth-oriented organization, while continuously expanding my skill set and contributing meaningfully to innovative and impactful solutions.

EDUCATION

Jaypee University of Information Technology <i>B.Tech in Computer Science and Engineering CGPA: 8.5/10</i>	Solan, Himachal Pradesh 2023 – Present
CSC Academy <i>Class XII (CBSE) Percentage: 84%</i>	Saharanpur, Uttar Pradesh 2021 – 2022
CSC Academy <i>Class X (CBSE) Percentage: 85%</i>	Saharanpur, Uttar Pradesh 2019 – 2020

PROJECTS

- Crop Yield Prediction** | *Python, Scikit-learn, XGBoost, Streamlit* | [GitHub](#)
- Built an end-to-end machine learning pipeline to predict agricultural crop yield using real-world data from 101 countries and 10 crop types covering 28,000+ records.
 - Trained and compared Random Forest ($R^2 = 0.99$) and XGBoost ($R^2 = 0.96$) regression models with feature importance analysis revealing crop type as the dominant yield predictor.
 - Deployed an interactive web application using Streamlit allowing real-time yield prediction based on country, crop, rainfall, temperature and pesticide usage.
- Campus Lost & Found** | *Node.js, Python, TensorFlow, MongoDB* | [GitHub](#)
- Built a full-stack web application using Deep Learning (ResNet50) to intelligently match images of lost and found campus items using Cosine Similarity.
 - Connected a Node.js/Express backend to a Python microservice handling asynchronous image uploads and cross-language data transfer via REST API.
 - Implemented image preprocessing pipeline and strict confidence thresholds to improve matching accuracy and reduce false positives.
 - Used MongoDB to store and retrieve user data and item records creating a complete end-to-end data pipeline.
- URL Shortener** | *Node.js, Express.js, MongoDB* | [GitHub](#)
- Developed a scalable REST API to convert long URLs into shortened easily shareable links with click tracking and analytics.
 - Implemented database schemas in MongoDB to manage URL mappings and track link usage statistics efficiently.

TECHNICAL SKILLS

Languages: C, C++, Python, JavaScript
Machine Learning: TensorFlow, XGBoost, Seaborn
Web Development: HTML, CSS, Node.js, Express.js, React.js, Next.js
Databases & Tools: MySQL, MongoDB, Git, GitHub

CERTIFICATIONS

- **Infosys Springboard** – Python Programming, C++ Programming, Data Structures and Algorithms
- **Cognitive Class (IBM)** – Deep Learning Fundamentals
- **Forge** – Data Analytics Job Simulation