

# Aasthayuli

Email: aasthayuli2000@gmail.com | Mobile: +91-9576357966

Portfolio | GitHub | LinkedIn | LeetCode

## SUMMARY

**Computer Science student skilled in ML, Python, and full-stack development. Built end-to-end projects focused on image/video classification and AI-powered voice assistants. Seeking a Software Developer role to build reliable real-world applications.**

## EDUCATION

- **Global Institute of Technology and Management** Gurugram, India  
*B.Tech in Computer Science and Engineering; CGPA: 8.1* Oct 2022 – Present
- **Jawahar Navodaya Vidyalaya** Saharsa, Bihar, India  
*Class 12th – 86.6%, Class 10th – 95.8%* Aug 2014 – Apr 2021

## SKILLS

- **Languages:** C, HTML/CSS, Python, Java, JavaScript, SQL
- **Frameworks:** React JS, NumPy, Matplotlib, Scikit-learn, PyTorch, Flask
- **CS Fundamentals:** DSA, DBMS, OOP, OS, Computer Networks, Machine Learning
- **Tools:** Git, GitHub, VS Code, PyCharm, IntelliJ, MySQL, Postman, Streamlit

## PROJECTS

- **Water Quality Classification System** | Source Code | View Project Nov 2025 - Dec 2025
  - Built a water-quality classifier (Clean/Muddy/Polluted) using **ResNet18 transfer learning**, achieving **88.04% validation accuracy**.
  - Implemented full ML pipeline: preprocessing, augmentation, training loop, validation, evaluation metrics, confusion matrix, training-history visualization, logging, and checkpointing.
  - Added **video-classification** via frame extraction and batch inference.
  - Built a **Streamlit app** supporting image + video predictions.
  - Tech: Python, NumPy, OpenCV, PyTorch, Streamlit.
- **Personalized Voice Assistant** | Source Code | Sep 2025
  - Developed a **full-stack AI voice assistant** using ReactJS + Tailwind (frontend) and Flask (backend).
  - Captured user speech, converted speech-to-text, and displayed it on the UI.
  - Generated responses using **Groq API (LLaMA 3.3 70B)** with gTTS.
  - Added audio controls: **play, pause, resume**.
  - Tech: ReactJS, Tailwind CSS, Python, Flask, gTTS, Groq API.

## CERTIFICATES

- **Artificial Intelligence and Data Analytics:** AICTE Skills4Future (2025)
- **Database Management System:** NPTEL, IIT Kharagpur (2025)
- **100 Days of Code (Python Bootcamp):** Udemy (2025)
- **Data Structures and Algorithms Using Java:** NPTEL, IIT Kharagpur (2024)
- **Programming in Java:** NPTEL, IIT Kharagpur (2024)

## ACHIEVEMENTS

- Solved **100+ problems** on **LeetCode**.

## ADDITIONAL INFORMATION

- **NCC CATC Camp:** Barauni, Bihar (Oct 2017 – Nov 2017)
- Awarded **NCC 'A' Certificate** by Ministry of Defence, Govt. of India (2019).