AASTHAYULI

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EDUCATION

Global Institute of Technology and Management, Gurugram — Haryana, India
B.Tech in Computer Science and Engineering | CGPA - 8.1 — Nov 2022 - present

Jawahar Navodaya Vidyalaya, Saharsa — Bihar, India
Class-12th CBSE | Percentage – 86.6% — April 2019 – April 2021
Class-10th CBSE | Percentage – 95.8% — Aug 2014 – March 2019

PROJECTS

Water Quality Classification System | **PyTorch, ResNet18, Streamlit** | View Project | Nov 2025 – Dec 2025
- Built a water-quality classifier (Clean/Muddy/Polluted) using **ResNet18 transfer learning**, achieving **88.04% validation accuracy**.
- Implemented a clean ML pipeline: preprocessing, augmentation, training loop, logging, and checkpointing.
- Added **Video-Classification support** by building a frame-extraction using **OpenCV** and inference module.
- Developed a **Streamlit app** supporting real-time predictions for both images and videos.

Personalized Voice Assistant | **ReactJS, Tailwind, Python, Flask, LLaMA** | Source Code | Sep 2025
- Built a full-stack voice assistant with ReactJS & Tailwind frontend and Flask backend.
- Captures **voice commands**, **converts to text,** and displays them on-screen for user clarity.
- Generates AI responses using **Groq API with LLaMA 3.3 70B**, shows text responses on-screen, and plays them aloud via **gTTS**.
- Supports **audio controls** including play, pause, and resume for seamless interaction.

Hospital Management System | Java, MySQL, Swing | Personal Project | Source Code | May 2025
- Developed a desktop-based hospital management system with Java Swing for GUI and MySQL for backend.
- Implemented **CRUD** operations for patient, doctor, and staff records with proper input validation.
- Added search and update functionalities for streamlined hospital operations.
- Applied modular design and exception handling to ensure reliability and maintainability.

ACHIEVEMENTS

- **100+** questions on **LeetCode -** verify

SKILLS

- **Languages**: C, HTML, Python, Java, JavaScript, MySQL
- **CS Fundamentals**: Data Structures and Algorithms (DSA), Object Oriented Programming (OOPS), Database Management System (DBMS), Computer Network (CN), Operating system (OS)
- **Web Development**: React JS, Tailwind CSS, Bootstrap   **Tools**: Git, GitHub

CERTIFICATES

- **Programming in Java** – NPTEL, IIT Kharagpur | Verify -75% in the offline exam
- **Data Structures and Algorithms Using Java** – NPTEL, IIT Kharagpur | Verify - 78% in the offline exam
- **100 Days of Code: The Complete Python Pro Bootcamp** – Udemy | Verify
- **Database Management System**- NPTEL, IIT Kharagpur | Verify - 77% in the offline exam

PROFILE

Portfolio | LeetCode | GitHub