ISHICA BINOD KUMAR

[LinkedIn](#) || [GitHub](#) || [Email](#) || Phone no.: +91 96372 87612

EDUCATION

Shah and Anchor Kutchhi Engineering College, Mumbai
B. Tech in Electronics and Computer Science, 2025 — **CGPA**: 8.9 / 10
Atomic Energy Central School No.:4, Mumbai
Higher Secondary Certificate (HSC), 2021 — 82.2%
Atomic Energy Central School No.:2, Mumbai
Secondary School Certificate (SSC), 2019 — 89.2%

SKILLS

- **Languages:** Python, SQL, C++, SQL, HTML, CSS, JavaScript
- **Frameworks/Libraries:** Pandas, NumPy, Matplotlib, MERN Stack, Flask
- **Databases/Clouds:** MySQL, MongoDB, AWS
- **Tools/Platforms:** Git, Visual Studio Code
- **Soft Skills:** Communication, Problem-Solving, Analytical Thinking, Adaptability, Detail Orientation

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WORK EXPERIENCE

INTERN   **10th December 2023 to 10th February 2024**
BHABHAATOMIC RESEARCH CENTRE (BARC)-[CERTIFICATE](#)
Project title: Crack Detection in Cement Structures using U-net. [GitHub](#)

- Developed a **deep learning model (U-Net)** for crack detection in cement structures, improving segmentation accuracy for image-based analysis.
- Applied **computer vision techniques** to automate inspection, reducing manual effort in structure monitoring.

INTERN   **10th June 2024 to 29th June 2024**
SAKEC- [CERTIFICATE](#)
Project title: Hospital Management System using MERN Stack. [GitHub](#)

- Built a **Hospital Management System** using the MERN Stack (MongoDB, Express, React, Node.js).
- Delivered the project within 3 weeks and **presented outcomes to faculty**, showcasing technical and presentation skills.

PROJECTS

LUMI – Digital Companion for Alzheimer's Patients (Firebase, PWA, AWS) [GitHub](#)

- Built a Progressive Web App to assist elderly users with memory support, reminders, and real-time chat.
- Integrated Firebase for backend, AWS S3 for storage, and CloudFront for hosting, creating a scalable solution.
- Secured copyright for LUMI:[CERTIFICATE](#)

Brain Tumour Detection (Python, Machine Learning) [GitHub](#)

- Developed a classification model to detect brain tumours from MRI scans using image processing and ML techniques.
- Achieved promising accuracy in early diagnosis, demonstrating the application of AI in healthcare.

Sign Language Recognition System (Python, Computer Vision) [GitHub](#)

- Created a recognition system to interpret sign language gestures into text for improved accessibility.
- Applied image processing and ML libraries to enable real-time communication for differently-abled individuals.

CERTIFICATES

- **AI/ML & Data Science:** [AI-ML Virtual Internship (Google)](#)
- **Development & Tools:** [Postman API Fundamentals](#), [Data Analytics Essentials (CISCO)](#)
- **Robotics & Hardware:** [Robotics Course (Infosys Springboard)](#), [Raspberry Pi Workshop (SAKEC)](#)
- **Competitions:** [Smart India Hackathon 2023 Participation](#), [ISRO Hackathon 2024](#)