

ARPIT SHARMA

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Education

Indian Institute Of Engineering Science And Technology, Shibpur

2022 – 2026

Bachelor of Technology in Computer Science And Technology (Cgpa:7.28)

Howrah, West Bengal

Experience

SystemOnSilicon– US/India-based Startup

May 2025–July 2025

Web developer Intern

Remote

- Accelerated platform performance by maintaining and improving the Alabs web platform, enhancing usability and interface consistency.
- Developed new features and enhancements based on evolving requirements from clients and internal teams, increasing user satisfaction.
- Collaborated with a remote cross-functional team to resolve 15+ critical issues and support continuous product development.

Projects

FundusNext (*Python, PyTorch, Streamlit, OpenCV, NumPy, Pandas, Matplotlib, Scikit-learn*) [Github](#) [Demo](#)

- Developed and benchmarked glaucoma detection models (ConvNeXtTiny, VGG16, ResNet50, EfficientNetB0, DenseNet121) on the EYEPA CS dataset, achieving 89.61% accuracy (AUC: 0.9692) with ConvNeXtTiny.
- Enhanced robustness via advanced data augmentation (rotations, affine transforms, noise injection), improving feature extraction and reducing overfitting by 15%.
- Optimized and deployed the model with PyTorch + Streamlit, enabling real-time glaucoma detection through an interactive interface, cutting inference time by 30%

ChatApp - Grove chat (*MERN, Socket.io, JWT, Chakra UI, Cloudinary*) [Github](#) [Demo](#)

- Built and launched a full-stack MERN chat app with real-time messaging for 100+ users using Socket.io, enabling seamless communication between individuals and groups.
- Integrated Cloudinary API for streamlined user profile image uploads, optimizing image delivery across devices and enhancing user experience with a 60% faster loading time.
- Designed and improved an intuitive and responsive UI using Chakra UI, enhancing user experience across devices by 25%.

Technical Skills

Programming Languages: C/C++, Python, JavaScript, SQL, HTML, CSS

Frameworks & Libraries: React.js, Node.js, Express.js, PyTorch, TensorFlow, YOLOv8, OpenCV, Streamlit, Chakra UI, Socket.io, Albumentations

Databases: MongoDB, MySQL

Tools: Git, GitHub, VS Code, Docker, AWS, Vercel

Core Concepts: Data Structures & Algorithms (DSA), OOP, DBMS, Computer Networks, Operating Systems, Machine Learning, Deep Learning, Computer Vision

Achievements

- Solved **380+ LeetCode** problems with a rating of **1900**, showcasing consistent practice in algorithms and data structures. [Profile](#)
- **Codeforces Specialist (Rating: 1444)**: Specialized in time-bound contests and advanced algorithmic challenges. [Profile](#)
- **HackNITR 5.0**: Engineered a real-time peer-to-peer payment application at NIT Rourkela hackathon.
- **ONGC Foundation Scholar**: Awarded to top 200 undergraduates nationwide for academic excellence.

Extracurricular Activities

- **General Secretary – Catharsis, Photography Club (IIEST Shibpur)**: Spearheaded 20+ events and increased member engagement by 40%.
- **Coordinator – Instruo 2024 (Annual Tech Fest, IIEST Shibpur)**: Managed logistics and participant engagement for 300+ attendees.
- **Sponsorship Head – Revelation 2025 (CS Dept. Tech Fest)**: Secured 5L+ funding from 10+ sponsors through outreach and negotiations.