

# ASHUTOSH SHRIKANT NARYAGOL

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## EDUCATION

KLE TECHNOLOGICAL UNIVERSITY (B.E. IN CSE)	9.44 CGPA	2022-2026
GOVT PU COLLEGE VADGAON BELGAUM	97.5%	2020-2022
SJP HIGH SCHOOL BANGALORE	91.36%	2018-2020

## PROFESSIONAL EXPERIENCE

### NVIDIA

#### Project Intern

Aug 2024 - Jan 2025

- Researched the Effect of Signal-to-Noise Ratio (SNR) Degradation on DNNs for Object Detection, focusing on YOLOv8l models.
- Built and processed a 9,744-image dataset with synthetic noise (SNR levels 6 dB to 28 dB) to simulate low-light environments.
- Achieved optimized object detection performance with mAP@0.5 scores of 77.9% (clean), 76.2% (degraded), and 76.8% (combined datasets), contributing to real-world applications like night surveillance and autonomous systems.

## SKILLS

- **Programming Languages:** Python, JavaScript, HTML / CSS, C / C++.
- **Competent in:** Git, Github, ReactJS, NodeJS, ExpressJS, React Native, AWS, Flask, Vercel, Heroku, Selenium Test
- **Databases:** MySQL, MongoDB, PostgreSQL
- **Languages:** English (proficient), Kannada (native), Hindi, Marathi

## ACHIEVEMENTS

- Paper Selected at SPIN 2025 Conference:  
Our research paper, *Wildlife Conservation: Real-time Endangered Species Detection using YOLO11*, was selected for presentation at the 12th International Conference on Signal Processing and Integrated Networks Amity University, Delhi-NCR. The paper showcased an optimized YOLO11 model, achieving mAP@50 of 88.2%, for real-time tracking of endangered species to aid conservation efforts.
- Top 15 Finalist at WCE Hackathon 2025:  
Competed in the WCE Hackathon 2025, ranking among the top 15 teams out of 1,000+ registered teams. Developed an Android app using React Native for the Air Quality domain, enabling real-time monitoring and analysis of environmental data to promote public health awareness.

## PROJECTS

- **CodeContest Platform:** Built a coding competition platform using C++, OOP principles, templates, and file handling. Implemented features like user registration, contests, submissions, leaderboards, and feedback systems with Factory and Observer design patterns for scalability. Designed modular components like User, Admin, Contest, Judge, and Leaderboard, with custom exception handling to ensure robust error management and data integrity.
- Developed a **Real-time video calling application** using **WebRTC, React, and Node.js**, enabling peer-to-peer video communication directly in the browser. Implemented **Express.js for signaling**, integrated with Javascript, and ensured code quality with **ESLint**.

## EXTRA-CURRICULAR

- **Sports:** Passionate about **chess and badminton**, actively playing to improve strategic thinking and physical fitness.
- **Hackathon Enthusiast:** Actively participate in hackathons like SIH 2024 and CodeForge, developing innovative projects under tight deadlines and collaborating with diverse teams.

## CERTIFICATIONS

- **The Complete Full-Stack Web Development Bootcamp:** Successfully completed the course, mastering front-end and back-end technologies like **React, Node.js, Express.js**, and **MySQL**.
- **Mastering Data Structures & Algorithms using C and C++:** Completed an in-depth course, building strong problem-solving skills and mastering essential DSA concepts with **C/C++**.