

# SHREYA INAMDAR

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## EXPERIENCE AND PROJECTS

### Intern at Center of Excellence in Visual Intelligence (CEVI)

- Researched underwater image degradation and developed a physics-backed deep learning model for attenuation coefficient estimation.
- Analyzed the relationship between wavelength-dependent attenuation coefficients and underwater visibility conditions.
- Collaborated with researchers to integrate domain knowledge from optics, image processing and deep learning, enhancing restoration accuracy.

### Few- Shot Object Detection using 2-Stage Fine Tuning and Data Augmentation

- Implement the FSOD model using Detectron2 and ResNet by implementing a 2 stage fine-tuning approach and cut-out augmentation, achieving 18.8% improvement over prior state-of-the-art methods.
- Published research in a conference (2025), contributing to advancements in low-data object detection.

### Optical Flow - based Vehicle Tracking System using Motion Saliency

- Integrated the Lucas-Kanade algorithm with motion saliency detection, achieving  $\pm 10\%$  accuracy in vehicle speed estimation.
- Optimized computational efficiency, enabling real-time performance at 15 FPS on standard hardware, making it scalable for ITS applications.

### Board of Studies - University Course Management System

- Developed a Next.js web application integrated with Supabase for managing university courses and syllabi, with a role based access.
- Automated application testing using Selenium, covering multiple test cases to ensure system stability and user experience.

## EDUCATION

KLE Technological University, Hubballi, Karnataka 2026

### Bachelor of Computer Science and Engineering

- CGPA: 9.66/10.00
- Relevant Courses: Computer Organization and Architecture, Machine Learning, Deep Learning, Data Structures & Algorithms, Computer Vision, Operating Systems

Mount Litera Zee School, Goa 2022

### Class 12- Central Board of Secondary Education

- 95%, Class Valedictorian

Mount Litera Zee School, Goa 2020

### Class 10- Central Board of Secondary Education

- 96.2%

## SKILLS & OTHER

- Programming Languages: Python, C, C++, JavaScript, SQL
- Web Development: React, Next.js, Supabase, Selenium
- Machine Learning & AI: TensorFlow, PyTorch, OpenCV, Detectron2
- Conducted Exploratory Data Analysis on cardiovascular disease trends in India using data from National Family and Health Survey (NFHS -5) and Global Burden of Disease (GBD 2019).
- Completed a month-long Industrial Internship on AI conducted by NITK STEP
- Certified by Infosys in CI/CD pipelines and Agile Methodology
- Completed a certified course on Google Cloud Fundamentals
- Communication Languages: English, Hindi, Marathi, Kannada, Gujarat