

# KUDUPUDI BINDU SHREE

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## EDUCATION

<b>Bachelor of Technology:</b> Artificial Intelligence & Machine Learning Shri Vishnu Engineering College for Women, Bhimavaram CGPA: 8.62	2022 – 2026
<b>Intermediate,</b> Tirumala Junior College, Bhimavaram, AP Percentage: 77.2	2021–2022
<b>X(CBSE),</b> Swarnandhra International School, Narsapur, Ap Percentage: 70.2	2019-2020

## SKILLS

**Programming Languages:** C, Python, Java  
**Web Technologies:** HTML, CSS, JavaScript  
**Frameworks:** Scikit-learn, TensorFlow  
**Tools:** GIT, Google Colab, VS Code  
**Core Concepts:** Machine Learning, DBMS, OOPS, OS, Computer Networks

## INTERNSHIPS

<b>Image Annotation Intern, ARAI</b>	May 2024 – Present
<ul style="list-style-type: none"><li>Annotated images to enhance datasets for autonomous vehicles.</li><li>Supported AI teams in improving object detection accuracy.</li><li>Performed pixel-level labeling of road elements such as lanes, vehicles, pedestrians, and traffic signs using industry-standard annotation tools.</li></ul>	

## PROJECTS

<b>Baja SAEIndia (a baja):</b> <ul style="list-style-type: none"><li>Built a level-1 autonomous vehicle using Jetson Nano.</li><li>Integrated control algorithms for steering, speed, and object detection.</li><li>Developed and tuned path-following controllers (Pure Pursuit with PID correction) in Python for autonomous navigation.</li><li>Optimized computer vision pipeline (OpenCV + deep learning) for lane detection and obstacle tracking under real-time constraints.</li></ul>
<b>Object Detection with YOLOv8:</b> <ul style="list-style-type: none"><li>Developed and trained a YOLOv8 object detection model for traffic light and traffic signs recognition using a custom dataset of labeled images.</li><li>Developed a React-based frontend for image upload and real-time visualization of detection results with bounding boxes</li><li><b>Tools &amp; TechStack:</b> Python, OpenCV, Google Colab, Flask, YOLOv8 (Deep Learning), React (HTML, CSS, JavaScript).</li></ul>

## ACHIEVEMENTS

- Secured a\_baja(2024) second runner-up in national-level competition.
- Ranked in the **Top 5%** of the Adobe GenSolve Hackathon (Qualified for Round 2).

## CERTIFICATIONS

- [DataBase Foundations – Oracle Academy](#)
- [Java Programming – Oracle Academy](#)
- [AI For Everyone – Coursera](#)

## EXTRACURRICULAR ACTIVITIES

- Psychology Representative** – Happy Club (Psychology Department)  
Student Coordinator, [SVECW]