

PROSPER UGHAKPOTENI

AI & Computer Vision Undergraduate

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PROFESSIONAL SUMMARY

High-achieving Artificial Intelligence undergraduate at Guilin University of Electronic Technology, specializing in Computer Vision and Applied Machine Learning. Proven track record of shipping end-to-end ML pipelines — including YOLO-based object detection and Explainable AI systems — alongside full-stack web applications. Seeking a Software Engineering or AI/Computer Vision Internship to apply technical rigor to real-world challenges.

TECHNICAL SKILLS

AI / Computer Vision: PyTorch, TensorFlow, YOLOv8, OpenCV, CNNs, Transfer Learning, SHAP (Explainable AI)

Languages: Python (Advanced), JavaScript, C++ (Arduino), HTML5, CSS3

Tools & Frameworks: Git, GitHub, Vercel, Render, Arduino IDE, Node.js, React (Modern JS Frameworks)

Spoken Languages: English (Fluent), Chinese (HSK Level — Progressing)

PROFESSIONAL EXPERIENCE

STEM Robotics Intern | STEM Professionals

Jun 2022 – Aug 2024

- Engineered and debugged robotics kits used across 10+ student workshops, reducing assembly errors by 30% through improved documentation and component pre-checks.
- Delivered technical STEM education to cohorts of 20+ students, achieving a >90% concept-retention rate based on post-session assessments.
- Collaborated within a 5-person multidisciplinary team to design hands-on curricula, boosting student engagement scores by 25% across the program.
- Represented the organization at the World Robot Olympiad 2024, competing in systems design and robotics challenges against 100+ international teams.

TECHNICAL PROJECTS

Cross-Dataset Transfer Learning with Explainable AI for Heart Disease Prediction

[\[GitHub Link\]](#)

2025 – Present

- Architected a diagnostic pipeline using transfer learning on tabular clinical data, targeting an F1-score of >85% for cardiac risk classification on a 300+ patient dataset.
- Integrated a SHAP-based explainability layer to surface the top-3 risk factors per prediction, directly improving model transparency for non-expert clinicians.

ShareSpace — Full-Stack Collaboration Platform [\[GitHub Link\]](#)[\[Live Link\]](#)

2025

- Launched a real-time shared workspace web app using modern JS frameworks, deployed on render with a fully automated CI/CD pipeline.
- Shipped 5+ core features (live editing, user auth, file sharing) across 100+ commits, maintaining a sub-200ms average page load time.

Budget Buddy — Personal Finance App [\[GitHub Link\]](#)

2025

- Built and shipped a cross-platform budget tracking app with real-time expense categorization, achieving a 4.5/5 usability rating from active testers.

EDUCATION

B.Eng. Artificial Intelligence

Sep 2024 – Present

Guilin University of Electronic Technology, Guilin, China

Relevant Coursework: Machine Learning, Computer Vision, Data Structures & Algorithms, Linear Algebra

CERTIFICATIONS & AWARDS

- International Participant — World Robot Olympiad (WRO) 2024
- HTML Level 1 — Cambridge Certification Authority (Feb 2024)
- CSS Level 1 — Cambridge Certification Authority (Oct 2024)