

Christopher Mukkungal Geever

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Place: Dallas, TX

SUMMARY

AI & Computer Vision Engineer with 3+ years of experience developing and deploying ML models for Automation, Computer Vision, and NLP applications. Proven success with YOLO-based detection, LLM integration, and MLOps using AWS SageMaker and PyTorch. Strong software engineering background with an M.S. in Computer Science from Purdue University (GPA 3.9).

EDUCATION

- **Purdue University, Fort Wayne** August 2023 - May 2025
 - *Master of Science in Computer Science; GPA : 3.9/4.0*
 - *Courses: Design Analysis and Implementation of Algorithms, Natural Language Processing, Applications of Deep Learning*
- **Indian Institute of Information Technology Kottayam** August 2018 - July 2022
 - *B.Tech in Computer Science & Engineering; GPA: 8.21/10*
 - *Courses: Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Databases, Bio-Informatics*

SKILLS SUMMARY

Programming Languages : Python, C, C++, SQL, Java

AI Frameworks : TensorFlow, Keras, PyTorch, SpaCy, OpenCV

Backend Development : Spring Boot, Django, Node.js Express.js, MongoDB, PostgreSQL, REST APIs

Frontend Development : HTML, CSS, JavaScript, React, React Native, Bootstrap, Qt

Tools & Cloud Services : Git, Jira, Microsoft Azure Machine Learning, AWS SageMaker

EXPERIENCE

- **UHV Technologies** Dallas, TX, USA
Computer Vision Engineer January 2025 - Present
 - **Image Recognition for Robotics:** Developing an AI-powered image recognition system, Integrating cameras, LIDARS, Sensors, for eco-friendly robotics applications, including Vision based Battery sorters and Metal sorters, to improve material classification efficiency.
 - **YOLO Model Training and Deployment:** Trained 50,000+ images using YOLO for real-time object detection, achieving 94% classification accuracy and optimizing sorting precision for industrial automation. Deployed the model on Microsoft Azure, exposing secure endpoints to enable remote updates and inference.
 - **Skills:** YOLO, OpenCV, TensorFlow, PyTorch, Computer Vision, Machine Learning, C++, Qt
- **Cognizant** Bangalore, India
Machine Learning Engineer July 2022 - July 2023
 - **Model Training and Deployment:** Developed a robust defect classification/clustering model leveraging XGBoost, achieving an impressive accuracy surpassing 80%. Implemented end-to-end MLOps deployment on Microsoft Azure, containerizing models and pipelines with secure endpoints for real-time inference.
 - Engineered an advanced and reliable Image Segmentation/object detection model using YOLO for an Automatic Driver Assistant software, attaining an exceptional Intersection over Union (IoU) score exceeding 0.9, contributing to enhanced safety and reliability in driver assistance systems.
 - Engineered a Vision based AI Agent to automate the UI testing of websites by detection of the web elements using YOLO and generating selenium code via LLMs (GPT) reducing 90% of human labor for UI testing.
 - **Skills :** Python, Pandas, Tensorflow, Pytorch AWS ML, Azure AI, NLP, Computer Vision, MLOPs
- **IBM** Bangalore, India
AI Application Developer Intern Jan 2022 - Jun 2022
 - Developed and integrated a full-featured **Customer Relationship Management (CRM)** system to streamline client data handling, automate lead tracking, and improve workflow efficiency.
 - Designed and implemented **AI-driven automation tools** for testing and quality control, reducing manual testing time and improving detection accuracy in production systems.
 - **Skills:** Javascript, Selenium, Python, TensorFlow, Keras, Pandas, REST APIs, Automation Testing

PROJECTS

- **AI Agent for UI Testing Automation** Jan 2024 - May 2024
Vision Based AI Agent
 - Developed an **AI-driven UI Testing Agent** using **YOLOv8** and **LLMs** for automated web element detection and testing. Integrated with **Selenium** to auto-generate scripts, cutting manual testing by **90%**.
 - **Skills:** Python, YOLOv8, OpenCV, Selenium, PyTorch, Transformers, React.js, Docker
- **News Article Summarization with GenAI** August 2023 - December 2023
Text Summarization with LLMs
 - Trained an abstractive news article summarization model using BART optimizing performance through BLEU evaluation and hyperparameter tuning.
 - **Skills:** Python, PyTorch, pandas, LLMs, BART, LoRa, Streamlit

CERTIFICATIONS

- **Generative AI with Large Language Models (LLMs) from AWS**