

KARTHIKEYAN A

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EXECUTIVE SUMMARY

Aspiring Machine Learning Engineer with strong foundations in AI, Deep Learning, and Data Science, and hands-on experience building and deploying scalable ML/DL pipelines. Proficient in Python, TensorFlow, PyTorch, and cloud tools like AWS, with proven ability to implement computer vision models for real-world applications. Successfully collaborated with startups and academic incubators, contributing to AI solutions in agriculture and automation. Passionate about solving large-scale data challenges, especially in geospatial and environmental domains.

EDUCATION

K Ramakrishnan college of Technology

Tamil Nadu , India

Bachelor of Technology - Artificial Intelligence and Data Science Engineering

2020 - 2024

Courses: Artificial Intelligence, Machine Learning, Deep Learning, Data Structures, Data Science, BigData.

INTERN EXPERIENCE

ROBONETICS AUTOMATION SOLUTIONS LLP

Chennai, Tamil Nadu

Junior control Engineer Intern (Full-time)

February 2024 - March 2024

- Integrated Autonomous Mobile Robots (AMR's) into warehouse operations, increasing efficiency by 82%.
- Optimized AMR navigation paths, ensuring accurate and efficient movement
- Enhanced safety standards and operational workflows, contributing to scalability and competitiveness.

START-UP PROJECT

Trichy, Tamil Nadu

Mentorship

February 2023 -Present

- Partnered with Anna University's startup incubator to develop an AI-driven business model.
- Collaborated with experts to refine an innovative automation solution, optimizing scalability.
- Leveraged mentorship and incubator resources to drive project success.

TCR INNOVATION

Remote

Machine Learning Engineer (Full-time)

December 2022 - March 2023

- Developed ML models for predictive analytics, improving accuracy by 95%.Collaborated with experts to refine an innovative automation solution, optimizing scalability.
- Built and deployed data pipelines and AI solutions for real-world applications.
- Conducted data visualization and analysis for strategic decision-making.

PROJECTS

Leaf Disease Identification Using Deep Learning

Python, TensorFlow, Keras

- Developed a CNN model that achieved 92% accuracy in detecting plant diseases, enhancing agricultural diagnostics.
- Applied image preprocessing and data augmentation to enhance model performance.

Bone Fracture Detection Using Deep Learning

Python, TensorFlow, Keras

- Developed a ResNet50-based CNN to classify bone fractures from X-ray images.
- Used the MURA dataset with preprocessing techniques to improve detection accuracy.

SKILLS SUMMARY

Programming Languages: Python, SQL, R, JavaScript

Frameworks & Libraries: TensorFlow, PyTorch, Keras, OpenCV, Pandas, Matplotlib, Flask, Django

Computer Vision: CNNs, ResNet50, Image Segmentation, Object Detection

Data Engineering & Cloud: Hadoop, AWS, Tableau, PySpark, YARN

Version Control: Git, GitHub

ACHIEVEMENTS / VOLUNTEER EXPERIENCE

- **TNStartup-Olimayam 2.0** Finalist
- Winner - Contest of Presentation at symposium
- Hands-On Training on Amazon Web Services by **ONE DATA SOLUTION**
- Hands-On Training on IOT by **VEI TECHNOLOGIES**