ASHVIN MANOJ

PG STUDENT

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CAREER OBJECTIVES

A results-oriented AI/ML Engineer with a strong foundation in deep learning, NLP, and computer vision. Eager to leverage hands-on experience in developing and deploying scalable machine learning solutions to solve complex business problems and drive innovation.

TECHNICAL SKILLS

Languages & Databases: C, C++, Python, Java, JavaScript, HTML, CSS, SQL, R
AI/ML Frameworks: TensorFlow, PyTorch, Scikit-learn, Transformers, Pandas, NumPy
Tools & Platforms: Git, IntelliJ IDEA, Streamlit, Flask, MATLAB, Linux, ROS, Arduino

EDUCATION

MTech in Computer Science and Engineering(AI/ML) | Rajagiri School of Engineering and Technology
CGPA - 9.49   **(Aug 2024 - Present)**

BTech (Honours) in Robotics and Automation | Adi Shankara Institute of Engineering and Technology
CGPA - 9.54   **(Oct 2020 - Jun 2024)**

PROFESSIONAL EXPERIENCE

Intern, Mastermine Technologies   **Aug 2025 - Present**

Contributed to a full-stack, cross-platform desktop application by developing Java-based backend services , implementing an asynchronous face matching system with RabbitMQ , and building a selfie-based photo search API.

Hardware Systems Intern, Sunlux Technovations   **Feb 2024 - April 2024**

PROJECTS

Multimodal Graph Learning for Early Classification of Alzheimer's Disease
Engineered a novel deep learning architecture for early Alzheimer's diagnosis, integrating multimodal data and graph learning techniques to accurately classify Cognitively Normal (CN), Mild Cognitive Impairment (MCI), and AD subjects.

Multilingual News Audio Translator
Developed a full-stack audio translation app using Wav2Vec 2.0 for speech recognition (92% accuracy) and an mBART model, fine-tuned with reinforcement learning for fluent translation.

PDF Query Application
Developed a scalable, voice-enabled PDF query system using NLP and Streamlit, transforming static documents into conversational hubs and reducing information retrieval time by over 89%.

Automatic Weed Detection and Spraying Robot
Revolutionizing precision agriculture with an AI-powered weed detection robot using ROS and a custom hybrid EfficientNetV2 - Transformer models (97% Accuracy) for an eco-friendly herbicide application.

PUBLICATIONS

- S. Krishnan, M. Karuppasamypandiyan, and A. Manoj, "A Hybrid Transformer Model Approach for Precision Weed Detection," in 2025 4th International Conference on Advances in Computing, Communication, Embedded and Secure Systems (ACCESS), Ernakulam, India, 2025, pp. 1-7,
  doi: 10.1109/ACCESS65134.2025.11135583.

ADDITIONAL INFORMATION

- **Certifications:** NPTEL (Python & DSA), Infosys (Prompt Engineering), Coursera (Google Data Analytics, Intro to GenAI, GenAI for UX Designers)
- **Soft Skills**: Communication, Critical and Creative Thinking, Time Management
- **Languages**: English, Malayalam, Tamil, Hindi.