

ASHVIN MANOJ

PG STUDENT

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CAREER OBJECTIVES

Driven MTech AI and ML student with a solid background in Robotics and Automation. Passionate about leveraging machine learning, automation, and AI to solve complex problems. Seeking opportunities to apply advanced technical skills in innovative, real-world solutions within dynamic professional environments.

TECHNICAL SKILLS

C and Python Programming, Artificial Intelligence, Machine Learning Algorithms, Computer Vision, Natural Language Processing (NLP), Arduino Programming, KUKA Robotic Control, ROS, MATLAB

EDUCATION

MTech in Computer Science and Engineering(AI/ML) **2024 - Present**

Rajagiri School of Engineering and Technology

BTech (Honours) in Robotics and Automation **2020 - 2024**

Adi Shankara Institute of Engineering and Technology, Kalady
CGPA - 9.54

Higher Secondary (12th) - Computer/ Maths **2020**

St. Mary's Public School, Thamarachal
Percentage: 92.6%

PROFESSIONAL EXPERIENCE

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

- Gained practical experience in Embedded Systems with a focus on industrial automation processes.
- Developed and tested programs in Assembly Language for various microprocessors.
- Collaborated with cross-functional teams to implement real-world automation solutions.

PROJECTS

Multilingual News Audio Translator

Developed an Audio Translator web app integrating Wav2Vec 2.0 (ASR), mBART with RL (NMT), and FastSpeech 2 (TTS) for seamless, accessible news broadcasting.

PDF Query Application

A scalable, voice-enabled PDF query system using NLP and Streamlit that transforms static documents into dynamic, searchable, and conversational information hubs for industrial efficiency.

Automatic Weed Detection and Spraying Robot

Revolutionizing precision agriculture with an AI-powered weed detection robot using ROS and transformer models for accurate, eco-friendly herbicide application.

ADDITIONAL INFORMATION

- **Languages:** English, Malayalam, Tamil, Hindi.
- **Certifications:** Skill Development Program on "Industrial Robots" (Siemens COE, NITT), NPTEL courses (Programming, Data Structure and Algorithm using Python, Automation in Production System and Management, Wheeled Mobile Robots), Infosys Springboard certification on "Prompt Engineering", Coursera Course on "Introduction to Generative AI"
- **Soft Skills:** Communication, Critical Thinking, Time Management