

# Ashir Vadakke

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## PROFESSIONAL SUMMARY

Master's student specializing in Artificial Intelligence and Robotics, with practical experience in data analysis, machine learning, and AI applications. Proven record in delivering scalable systems, managing teams, and enhancing user experiences.

## EDUCATION

### Friedrich-Alexander-Universität

Erlangen, Germany

*Master's Degree in AI and Robotics*

2024 - Present

*Relevant Courses: Robotics, Machine Learning for Engineers, Deep Learning, Algorithm Programming and Data Representation, Data Science*

### VIT University

Vellore, India

*Bachelor's Degree Electrical and Electronics Engineering*

2019 - 2023

*Grade: 1.7, University Rank: 3*

*Relevant Courses: IoT for Engineers, Java Programming, Probability and Statistics, Electrical Engineering, Industry 4.0, Data-Driven Algorithms, Semiconductor Electronics, VLSI*

## EXPERIENCE

### Head of Technology

Nov. 2022 – Mar. 2024

*Kite India*

*Vellore, India*

- Directed a 20-member tech team for a sustainable AI-based travel-tech startup, driving business growth and expansion.
- Planned over 9000 tailor-made trip plans across South Asia, promoting sustainable tourism and achieving a 95% customer satisfaction rate.
- Orchestrated large-scale camping events hosting 3000+ guests worldwide, resulting in a 20% increase in repeat customers.

### Full Stack Web Developer

Mar. 2020 – Oct. 2022

*Yumlux*

*Bangalore, India*

- Led a team to design and develop websites for over 90 clients, resulting in a 15% increase in client retention.
- Implemented a robust backend using Express and MongoDB, enhancing user experience and operational efficiency.
- Engaged with clients to meet project requirements within tight deadlines, achieving a 98% on-time delivery rate.

### EV Design Intern

Sep. 2019 – Dec. 2019

*PANTECH Solutions*

*Chennai, India*

- Created a comprehensive electric vehicle model using MATLAB Simulink, reducing design time by 20%.
- Refined EV system configurations in MATLAB Simulink, resulting in smoother torque delivery and a 10–15% improvement in energy efficiency during simulation tests
- Assisted in system integration and optimization, gaining hands-on experience in EV design.

## PROJECTS

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### IoT-based Firefighting Robot

#### *Personal Project*

- Engineered an unmanned support vehicle for fire search and extinguishing, reducing response time by 30%.
- Integrated remote control, navigation, and fire detection system, improving operational efficiency by 25%.

### IoT-based Garbage Monitoring System

#### *Academic Project*

- Designed an Arduino-based system reducing sanitation worker workload by 20% and improving scheduling efficiency.
- Integrated a cloud-based storage and analytics system into the platform, improving workflow speed and enabling real-time access for 10+ team members.

### Shopping Assist and Real-time Web App with IoT

#### *Personal Project*

- Built an interactive shopping assistant using React.js and Node.js, increasing user engagement by 10%.
- Performed optimization and testing, improving customer satisfaction by 20%.

## TECHNICAL SKILLS

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**Languages:** Python, C/C++, Java, JavaScript, LaTeX, HTML/CSS, R, SQL

**Libraries/Frameworks:** React.js, Node.js, PyTorch, TensorFlow, Langchain, Django, Angular, jQuery, NumPy, OpenCV, Scikit-learn

**Developer Tools:** Git, GitLab, Google Cloud Platform, AWS, Microsoft Azure, Mendix, Microsoft Power Platform (Power Apps, Power Automate, Power BI), MATLAB Simulink

## LANGUAGE SKILLS

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**German:** B2 (Actively Learning)

**English:** C1 (Highly Proficient)

**Other Languages:** Hindi, Malayalam, Tamil

## VOLUNTEER EXPERIENCE

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### Information Technology Team

Jan. 2025 – Present

*Nuremberg, Germany*

- Built internal automation tools using JavaScript and Python, reducing repetitive workload across 4 departments.

### HR and Event Head

May. 2024 – Jan. 2025

*Enactus Munich*

*Munich, Germany*

- Coordinated logistics and communications across cross-functional teams to deliver high-impact social entrepreneurship initiatives.
- Planned and facilitated workshops and events, engaging over 300 participants.

### Student Volunteer

Jul. 2021 – Jul. 2022

*United Nations*

*Kerala, India*

- Supported logistics and coordination during Kerala flood relief efforts, helping distribute aid and resources to over 500 families in affected regions

## HONORS AND AWARDS

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**Start-up Grant Winner, Top 25** - Indian Innovation Challenge 2023 (Startup India). Awarded INR 500,000 for developing a commercial prototype.

**Special Achievers Award** - VIT Vellore: Recognized for exceptional thesis and global competition performance.

**Runner-Up** - Badminton Championship, organized by Govt. of Kerala, India.