

ADARSH VELMURUGAN

Chennai, India | Email: theadarsh.ai@gmail.com | LinkedIn: [Adarsh Velmurugan](#) | Ph no: +91 82480 53672

ABOUT

As an AI enthusiast, I am dedicated to exploring its transformative potential across various domains. With a profound interest in the intersection of technology and innovation, I am fascinated by AI's capability to drive change and enhance efficiency. My journey is marked by a commitment to staying at the forefront of AI developments, applying cutting-edge solutions to real-world challenges. I thrive in collaborative environments where creativity and technical expertise converge to push the boundaries of AI applications. My goal is to harness AI's capabilities to create solutions that improve lives and drive positive change.

ACADEMIC QUALIFICATION

Sri Sai Ram Engineering College, Chennai, Anna University, TN, India Aug 2020 – May 2024
B.Tech, Artificial Intelligence and Data Science,
CGPA: 8.66/10

Asan Memorial Higher Secondary School, Chennai, TN, India Apr 2018 – Mar 2024
12th Grade – Computer Science Stream
Percentage: 70 %

ACHIEVEMENTS

SMART INDIA HACKATHON - RUNNER

At the Smart India Hackathon, a prestigious nationwide initiative, our team addressed the challenge of identifying slow learners through innovative methods. We developed a solution leveraging Augmented Reality (AR), Virtual Reality (VR), and our Voice Assistant Technology. AR enhanced understanding of topics, VR simulated classroom and lab environments, and JESSI provided interactive guidance and support.

NASA'S - IASC CITIZEN SCIENTISTS

I completed training modules and workshops focused on analyzing astronomical images and identifying celestial objects. Utilizing images from various telescopes, I conducted accurate and consistent data analysis to report findings to IASC. This experience provided opportunities to learn from experienced mentors, seek guidance, and contribute to advancing collective knowledge in astronomy.

IDEX - DISC 7 (SPRINT)'22

Developed an unmanned surveillance system aimed at enhancing mechanized forces' capabilities. Our solution focused on performing surveillance in target areas to identify ground objects, detect intruders, illegal movements, and facilitate emergency supply deliveries. Utilizing Python libraries, Web ODM, and Android Studio, we implemented robust software solutions to support these functionalities.

PALS - IIT MADRAS - FINALIST

Presented Our SMART EDUCATION idea along with the working prototype. Our Prototype will give Immersive Experience, 3D Visualization, Virtual Laboratories and Collaborative Learning in Virtual Spaces to Students by using AR VR Technology

Others: SDG Ideathon Winner, IEEE Imagica, IEEE Xtreme, Paper presentation winner

WORK EXPERIENCE

JEEVAN TECHNOLOGIES – a NoblIQ Company **MAY '2024 - PRESENT**

AI Developer

- I've developed a cutting-edge web application designed to revolutionize document management, particularly for Request for Proposals (RFPs). This platform seamlessly extracts and processes text from uploaded PDFs, uses advanced Natural Language Processing (NLP) and Google Generative AI for detailed document queries, and integrates a voice assistant for hands-free interaction.
- Also automating RFP template filling by the RFP PDF data and maintaining a searchable interaction history, the application enhances efficiency, accuracy, and user experience, setting a new standard in document handling for organizations.
- Other projects are Universal Chatbot, AI Agentic Workflow – AbacusAi

VAANAM TECHNOLOGIES **MAR '2024 – MAY 2024**

AI/AR Developer Intern

- For an AI & AR Integrated Face Try-On experience, I specialize in developing innovative solutions that revolutionize the way users interact with virtual products. Leveraging my expertise in Open CV, augmented reality (AR) and facial recognition technologies, I create immersive experiences that allow users to try on various products virtually, such as cosmetics, eyewear, or accessories .

INNOVATIONS FOR DEFENCE EXCELLENCE (DIO-MINISTRY OF DEFENCE) **MAY 2023 – AUG 2023**

AI Developer Intern

- I spearheaded an initiative to develop an AI-powered system for categorizing incident reports, such as equipment failures, personnel injuries, and security breaches, using supervised learning on a labeled dataset. This system utilizes advanced NLP techniques to extract insights, identify trends, and patterns from historical incident data. By integrating drones for enhanced data collection and surveillance capabilities, our solution empowers military leadership to anticipate challenges proactively and allocate resources more effectively.

AR/VR Developer Intern

- Using Unreal Engine, developed a virtual reality chemistry lab project for students to interact with chemicals virtually and rat anatomy to see the organs with the help of VR (Oculus Quest)
- Designed and developed an AR based text book for students to visualize 3D models from the book

INTERNATIONAL PUBLICATIONS

“A Survey on Data Science and its Application”, *International Journal for Modern Trends in Science and Technology* / Vol 8 Issue 05

“Exploration and Aspects on Augmented Reality”, *IEEE Xplore | International Conference on Power, Energy, Control and Transmission Systems (ICPECTS) | Dec. 08, 2022*

“Review on Technologies, Applications, Advantages, Challenges in Robotics”, *Journal of Xidian | Volume 15 - Issue 12 - Dec 21*

“Intellectual Property Published”, *Dec. 23, 2022 -*

PROFESSIONAL PROJECTS

Title: TOOFAN: Education for the Future

Team size: 6

Summary: EdTech start-up company focusing on the latest technologies like Augmented and Virtual Reality with AI in education as a remedial solution for students with learning disabilities. It has led the front-end development using ReactJS, HTML CSS, and the back-end using Google Firebase. As the founder and CEO, successfully obtained funding exceeding \$1,000 and have been selected to receive \$12,000.

PROJECTS

Title: Smart Library Management System

Summary: AI-powered library management system that enhances user experience through facial recognition for entry registration and NFC technology for book issuance and returns. Individual website displaying real-time book availability and trending titles, aiding users in book selection. AR navigation feature guides users within the library, optimizing navigation efficiency

Title: Multilanguage Invoice Reader/Extractor App

Summary: This project is a Streamlit application named "**Multi-Language Invoice Reader**" which extract information from uploaded invoice images. Users can input prompts and upload images of invoices, and the app will use the AI model to understand and answer questions based on the content of the invoices

Title: NutriScan AI App

Summary: A **NutriScan AI App** is an innovative tool that uses Google's Generative AI to analyze food images and provide nutritional information. By uploading a photo of a meal, users can receive a detailed breakdown of each food item's calorie content, enhancing their ability to manage dietary intake effectively.

SKILLS

Programming Languages: Python, C/C++, Java, HTML, CSS, R, C#, MATLAB, SQL

Technical Knowledge: G-Suite, Microsoft Office, Adobe Photoshop, Windows, macOS, Graphic Design

Industry Knowledge: Data Structures, Robotic Process Automation, Artificial Intelligence, Machine Learning, Neural Networks, Generative AI, Computer Networking, Full Stack Development, AR/VR Development, 3D Modelling

Tools and Technologies: GitHub, Figma, Docker, API Gateway, AWS, Visual Studios, Blender, Flutter

Soft Skills: Critical Thinking, Leadership, Problem-Solving, Creativity, Communication, Teamwork

Languages: English, Tamil, Hindi

CERTIFICATES

- **UDEMY:** Generative AI for Data Scientists Analytics Specialization, Python Programming, Machine Learning & Deep Learning in Python & R, ANN with keras, HTML5 & CSS3, Data Science Course, Figma Design Course
- **LEMA Labs (By IIT Madras):** NodeMCU/Arduino Programming, Image Recognition
- **NPTEL:** Design and Implementation of Human-Computer Interface, Foundation of Cryptography
- **Spoken Tutorials:** Arduino Training, PHP and MySQL, R Language, Java Language
- **Others:** HUAWEI Foundation Course, Handwritten Digits Recognition using ML, Fabrication and programming of Nano Satellite