

YADESH HARIHAR SENTHILKUMAR

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EDUCATION

IRA A. FULTON SCHOOLS OF ENGINEERING, ARIZONA STATE UNIVERSITY

Master of Science in Information Technology

Tempe, AZ

Expected May 2027

R.M.K ENGINEERING COLLEGE

Bachelor of Engineering in Computer Science and Engineering

Chennai, India

Jul 2024

PROJECTS

Arrhythmia Classification using Deep Learning (March 2024)

- Built a classification model using **2D ECG spectral images** and convolutional neural networks.
- Improved accuracy by experimenting with model architectures and preprocessing techniques.
- Demonstrated application of AI in **healthcare diagnostics**.

KWIZZ CHAMP – Accessibility Platform for Blind Students

- Developed a system to provide **scribes for exams** with **voice feedback** and **voice recognition**.
- Enhanced inclusivity by enabling visually impaired students to attend exams independently.
- Worked on **backend logic** and voice-guided interactions.

Emotion Analysis on Social Media Tweets

- Collected and preprocessed large datasets of tweets for **sentiment and emotion classification**.
- Applied **NLP techniques** (tokenization, stop-word removal, feature extraction).
- Used classification models to predict emotions, aiding in **social media analytics**.

Employee Handler Web Application

- Built a system using **React, Node.js, Express.js, and MongoDB** to manage employee data.
- Implemented features for **attendance tracking, payroll accuracy, and safety monitoring**.
- Contributed to **front-end development** and **data handling**.

Fertilizer Recommendation System

- Designed a recommendation system that suggests optimal fertilizers based on **soil and crop data**.
- Integrated **machine learning algorithms** to enhance agricultural productivity.

Leadership & Entrepreneurship

Founder – Senthil Velan Driving School, Tamil Nadu (2022–Present)

- Train ~ 40 students per month in two-wheeler and four-wheeler driving.
- Manage services including **license related services and vehicle-related services**.
- Planning to build a **web application** for record management and automated reminders.
- Demonstrated skills in **entrepreneurship, leadership, and operations management**.

TECHNICAL SKILLS

- Programming & Data:** Python, SQL, Pandas, NumPy, Scikit-Learn
- Web Development:** HTML, CSS, JavaScript, React, Node.js, Express.js
- Database:** MySQL
- Cloud & DevOps:** Google Cloud, AWS (learning), Docker, Git/GitHub
- Other:** Data Analysis, Problem Solving, Leadership, Team Collaboration

Certifications (Planned/In Progress)

- AWS Certified Solutions Architect – Associate(Feb 2026)
- Fundamentals Google Cloud
- Docker & Kubernetes (In Progress)

ADDITIONAL INFORMATION

- Languages:** English, Tamil, Telugu
- Interests:** Sports, Music, Automotive, Reading