

AKARSH CHOWDARY KONDETI

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Career Objective: As a B.Tech graduate actively developing expertise in the MERN Full Stack, my goal is to join a growth-oriented company where I can utilize my skills in JavaScript, front-end development, and backend APIs to create efficient, scalable web solutions. I aim to continuously learn modern technologies, contribute to high-quality software products, and build a long-term career in full-stack development...

EDUCATION

Kalasalingam Academy of Research and Education

B.Tech – Computer Science and Engineering

CGPA: **8.08**

2021 – 2025

Sasi Junior College

Board of Intermediate Education, Andhra Pradesh

Percentage: **96%**

2019 – 2021

Sri Chaitanya Techno School

Board of Secondary Education, Andhra Pradesh

Percentage: **95%**

2018 – 2019

SKILL

Programming Languages:

Python, Java, SQL (MySQL, Oracle – basics), HTML5, CSS3, JavaScript

Database Management:

MySQL, MongoDB (NoSQL), Oracle (basic understanding)

Core Concepts:

OOP, SDLC, AI/ML, Deep Learning, Generative AI, Prompt Engineering (beginner)

Platforms & Tools:

Git, GitHub, VS Code, Power BI, MS Excel

RESEARCH PAPER

1. Enhancing Object Detection through Auditory Visual Fusion on Raspberry Pi and FogBus

- Developed an AI-powered object detection system using Raspberry Pi, TensorFlow Lite, and FogBus, integrating auditory-visual fusion for improved real-time recognition.
- Implemented edge and fog computing techniques to enhance performance, reduce latency, and optimize resource management for assistive technology.
- Achieved high accuracy (92.63%) in object detection by customizing YOLOv8 with multimodal data fusion, improving accessibility for visually impaired individuals.

2. Deep Learning Aided Emotion Recognition From Music

- Developed a deep learning-based emotion recognition system using MFCC features and LSTM models to classify emotions from music audio.

- Implemented audio signal processing techniques to extract meaningful features and improve accuracy in identifying emotions like happy, sad, and angry.
- Achieved high accuracy (83%) in music emotion classification by optimizing neural networks and comparing them with traditional machine learning models.

PROJECTS

1. Energy Conservation using Modern Technology

- Objective: Developed an IoT and machine learning-based energy monitoring system to optimize consumption and promote sustainability.
- Technologies Used: IoT, Machine Learning, Data Analytics, Cloud Computing, and Web/Mobile App Development.
- Key Contributions: Implemented real-time monitoring, predictive analytics, and smart automation, reducing energy waste and improving efficiency.

2. PDF Interaction QA Chatbot using RAG and LLM

- Objective: Developed an AI-powered chatbot for PDF interaction, leveraging Retrieval-Augmented Generation (RAG) and Large Language Models (LLMs) to automate document analysis and enhance information retrieval.
- Technologies & Skills Used: Implemented Natural Language Processing (NLP), Machine Learning, and Cloud-based AI models for summarizing academic papers, legal documents, and business reports, improving efficiency for students, professionals, and researchers.
- Impact & Business Potential: Addressed inefficiencies in document analysis by providing accurate AI-driven insights, with potential applications in education, legal, healthcare, and corporate sectors, supporting enterprise integration and API monetization.

CERTIFICATIONS

- Oracle Cloud Infrastructure 2023 Certified Data Science Professional - **Oracle University**
- Learn Python – **Codechef** (July 2023)

EXTRA CIRCULAR ACTIVITIES

- E-IIC Volunteer – Contributed to innovation and technical initiatives as a volunteer at Kalasalingam Academy of Research and Education.
- Sustainability Hackathon Challenge 2023 – Participated in the Grand Finale organized by the Entrepreneurship Development Institute of India (EDII), contributing innovative ideas for sustainability-based startups.
- Innovate TN Hackathon Participant – Actively participated in the Innovate TN Hackathon Challenge 2024, showcasing creativity, teamwork, and problem-solving skills in using technology to eradicate social evils.

SOFT SKILLS

- Problem Solving
- Adaptability
- Communication
- Technical Curiosity
- Learning Agility