Karthikeya Maddala

LinkedIn: linkedin.com/in/karthikeya-maddala
GitHub: github.com/karthikmaddala
Email: karthikeyamaddala3@mail.com
Mobile: +91-9959925449

Skills

Languages: Python, Java, C, C++, JavaScript
Frameworks: HTML, CSS, Pandas, NumPy, Matplotlib, Bootstrap, NodeJs
Tools/Platforms: Google Colab, Jupyter Notebook, MySQL, MongoDB, Git, VS Code
Soft Skills: Problem-Solving, Team Collaboration, Adaptability, Time Management

Projects

Smart Parking Management System | *Python, ML, Computer Vision, Streamlit* Nov '25 – Present
- Developing an ML-driven smart parking system that detects parking slot availability and predicts occupancy using real-time or simulated sensor data.
- Designed preprocessing pipelines, performed feature engineering, and trained classification models using Python (Pandas, Scikit-learn) to improve slot detection accuracy.
- Delivering a working prototype with live slot-status prediction and analytics, with an interactive Streamlit interface under development for full deployment.

An AI-Powered Diet Assistant | *Python, AI Tools, UI Design* | GitHub Apr '25 – May '25
- Built an end-to-end intelligent diet guidance system featuring an AI chatbot, BMI analyzer, daily meal planner, and task organizer for personalized health support.
- Implemented modular logic for chatbot responses, BMI calculations, and meal-plan generation while optimizing backend workflows for efficient data handling.
- Delivered a clean, user-friendly interface that integrates all features seamlessly, demonstrating strong skills in Python, AI-assisted functionality, and interactive UI development.

Memory Management Simulator | *Python, Matplotlib* | GitHub Mar '25 – Apr '25
- Developed a console-based memory management simulator in Python to demonstrate paging (FIFO, LRU) and segmentation techniques.
- Implemented visualizations using Matplotlib to display page faults and memory block allocation for better understanding of OS memory behavior.
- Built a modular simulation workflow enabling users to test different replacement algorithms and compare their performance through clear, data-driven outputs.

Training

Mental Health Simulator | *Java, Core-DSA* | *Cipher Schools* | GitHub Jun '25 – Jul '25
- Developed a console-based "Mental Health Stimulator" tool in Java that simulates a supportive mental-wellbeing companion using core data structures (HashMap, Stack, Queue) for mood tracking, negative-thought management, and positive-affirmation handling.
- Structured the system to log moods, stack and manage negative thoughts, enqueue positive affirmations, and provide suggestions based on tracked mental state showcasing skills in Java programming, data structures, and algorithmic logic.
- Delivered a working prototype allowing interaction via the console; project is ongoing and demonstrates foundational DSA knowledge, programmatic logic, and potential for future enhancement (e.g. GUI or feature expansion).

Certificates

- ChatGPT-4 Prompt Engineering: ChatGPT, Generative AI & LLM | Infosys | Springboard | Certificate Aug '25
- Artificial Intelligence with Python | Coincent | Certificate Jan '25
- Python Programming | CSE Pathshala | Certificate Mar '24

Achievements

- **Cleared HackerRank SQL (Basic) Certification** | Certificate Nov '25
  Demonstrated strong foundational database querying skills by clearing the HackerRank SQL (Basic) Certification, reflecting solid problem-solving and practical SQL proficiency.
- **Participated in HACK-IOT Hackathon (School of ECE, LPU)** | Certificate Feb '24
  Gained practical exposure to IoT concepts, teamwork, and hardware-software integration while collaborating in a real-time event environment.

Education

Lovely Professional University Phagwara, Punjab
Bachelor of Technology Aug '23-Present
Computer Science and Engineering (AI & ML); CGPA:6.49

Tirumala Junior College Bhimavaram, Andhra Pradesh
Intermediate Apr '21 – Mar '23
MPC; Percentage; 93.3%

Sri Chaitanya Techno (EM) School Bhimavaram, Andhra Pradesh
Matriculation; 98.6% Apr '20 – Mar '21