



Mangalesh Senthil

DATA ANALYST/DATA SCIENTIST

ABOUT ME

I'm a curious data science student passionate about transforming data into actionable insights. I love exploring patterns, solving problems, and using the best tools to drive decision-making and uncover new opportunities. What excites me most is the real-world impact data can have in optimizing processes and driving innovation. I'm always eager to learn, grow, and contribute to meaningful projects while evolving alongside the challenges I face and the people I collaborate with.

PROJECTS & EXPERIENCE

- Recursive AI Executor (Full-Stack Self-Correction Agent)**
Designed and deployed a full-stack system utilizing the Gemini API to generate, execute, and automatically debug Python code.
Tools used: Python, FastAPI, Gemini API, React, Tailwind CSS, Subprocess, Pydantic.
- Dynamic EV Charging Price System (Reinforcement Learning)**
Developed a Reinforcement Learning (RL) pricing agent using a custom Gymnasium environment to dynamically adjust EV charging tariffs based on real-time factors (Grid Load, Demand, Time of Day).
Tools used: Python, Streamlit
- Fitness Tracker & Calorie Predictor (Machine Learning)**
Created a full-stack app to collect workout and diet data, using ML to predict calories burnt based on a gym dataset.
Tools used: Python, CSS

SKILLS

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| <ul style="list-style-type: none">PYTHONR PROGRAMMINGEXCELJFLAP | <ul style="list-style-type: none">MYSQLPOWER BIHTML & CSSTABLEAU |
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Soft Skills: Leadership, Teamwork, Discipline, Event Management, Critical Thinking, Creativity, Empathy, Communication, Adaptability

AREAS OF INTERESTS:

- Data Analysis & Visualization
- Machine Learning
- Natural Language Processing
- SQL & Database Management

CONTACT

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EDUCATION

Amrita Vishwa Vidyapeetham
Coimbatore
Integrated MSc Data Science

PSG Public Schools
Coimbatore
JUNE 2020 - MARCH 2022

PSG Public Schools
JUNE 2019 - MARCH 2020

HOBBIES

Strength Training
PC/Console Gaming
Cloud Gazing