



# Mangalesh Senthil

DATA ANALYST/DATA SCIENTIST

## 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

## 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

- |                 |              |
|-----------------|--------------|
| • PYTHON        | • MYSQL      |
| • R PROGRAMMING | • POWER BI   |
| • EXCEL         | • HTML & CSS |
| • JFLAP         | • TABLEAU    |

**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