Harish kumar R

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EDUCATION

- **RMK Engineering College** — Tiruvallur, TN
  B.E. Computer Science and Engineering (with Honors degree A.I)- CGPA : 8.22 — *SEP 2022 – April 2025*

EXPERIENCE

- **Unified Mentor** — Chennai , TN
  Data Analytics Trainee — *Jan 2025 – March 2025*
  - Collected, cleaned, and analyzed real-world datasets using **Python (Pandas, NumPy)** and **MySQL** to uncover actionable insights.
  - Handled tasks involving **MySQL**, and **Pandas.**
  - Built interactive data visualizations and dashboards using **Excel** and **Matplotlib** to present key business trends.
  - Worked on a live project: **Coca Cola Stock – Live and Updated**, integrating real-time data pipelines and forecasting models.

COMPETITIONS

- **PSG College Hackathon Finalist** — Coimbatore , TN
  Advance Preventive Healthcare through AI — *Aug 2024*
  - Shortlisted among the **top 100** participants across Tamil Nadu and collaborated in a **team of 6** to develop an AI-driven preventive healthcare solution.
  - Deployed the solution on an **AWS EC2** instance with **Docker** and integrated it with a **Flutter** frontend.

- **Glance Village Hackathon RMKEC Finalist** — RMK Engineering College, Chennai, TN
  Project : Crop Price Prediction — *May 2023*
  - Finalist among 200+ competing teams in a state-level hackathon.
  - Collaborated in a team of 6 members to build a **machine learning model that predicts future crop prices** based on historical data and market trends.
  - Played a key role in developing the core logic of the pricing model, contributing significantly to team reaching **finalist.**

PROJECTS

- **AI Chatbot using RASA** | *Python, RASA*
  - Built a **custom-trained chatbot** using Rasa for handling dynamic website queries through NLP.
  - Integrated with a web interface, supporting contextual responses and user intent recognition.

- **Smart Waste Management System** | *Python, OpenCV, YOLOv5*
  - Developed a system to detect garbage overflow in bins using **YOLO object detection** on image/video input.
  - Processed live or uploaded footage to classify waste bin status in real-time.
  - Aimed to improve **urban cleanliness** and optimize **municipal waste collection schedules**.

SKILLS

Languages: Python
AI & Machine Learning : NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch (beginner)
Cloud Computing: AWS (S3, EC2, VPC, IAM)
Developer Tools: Git, Jenkins, MySQL, Docker, Ansible.
Other Tools & Concepts: Data Preprocessing, Model Training & Evaluation, Jupyter Notebooks

ACHIEVEMENTS

2024	1st place Certification	Coding Event at PSG College of Technology
2024	1st place Certification	Coding Event at RMKCET
2024	1st place Certification	Web Page Design at RMKCET

Language:

-English : Professional   - Tamil : Fluent   - Telugu : Fluent