Pavan Manojkumar

Marathahalli , Bengaluru Karnataka
9880989701 pavanmk1310@gmail.com linkedin.com/in/Pavan Manojkumar github.com/Pavanmk1310

Education

SRM Institute of Science and Technology **Sep 2022 – May 2026**
Bachelor of Technology in Computer Science — GPA: 8.7 *Kattankulathur, Tamil Nadu*

Sri Chaitanya Techno School **May 2020 – May 2022**
Class XII (CBSE) – 73.2% *Bangalore, Karnataka*

Ryan International School **May 2019 – May 2020**
Class X (CBSE) – 85.2% *Bangalore, Karnataka*

Experience

KENT Intelligent Transportation Systems **Feb 2024 – May 2024**
Software Engineer Intern *Virtual*

- RDBMS Development: Tasked with drawing the ER diagram and creating an RDBMS to store the number plate of a car as an image. Used an AI model to retrieve and store the number plate in a table elsewhere in the same database.
- Machine Learning Integration: Incorporated a pre-trained ML model to decipher the number plate's number from the image and store it in the database table.

Tristha Global Pvt. Ltd. **June 2025 – August 2025**
Machine Learning Intern *Chennai, Tamil Nadu*

- Worked on applying Agentic AI principles in real-world applications to improve autonomous decision-making and task execution.
- Assisted in the deployment of AI/ML models on Microsoft Azure Cloud, ensuring scalable and secure performance.
- Contributed to the development of AI-powered automation testing tools, enhancing testing efficiency and reducing manual effort.

Projects

RAG Application | *Python,Meta LLaMA 2 ,langchain* **August 2024**

- Developed a document-based chatbot using the Retrieval-Augmented Generation (RAG) architecture
- Integrated Llama 2 as the core language model, invoked via Ollama
- Utilized Ollama's embedding capabilities to generate vector representations of uploaded PDF documents.

Pacman using Reinforcement learning | *Gymnasium, reinforcement learning* **June 2025**

- Implemented Reinforcement Learning agents for the Pacman game using Farama's Gymnasium API as the environment.
- Implemented using Stable-Baselines3, achieving a mean reward of 735 across 5 evaluation episodes — a 4× improvement in performance over the baseline
- Developed a second agent using a Deep Q-Network (DQN) to learn optimal policies through experience replay and Q-value updates.

Sentiment Analyzer | *Python, Transformers, BeautifulSoup, Pandas* **June 2024**

- Model Integration: Integrated a BERT Multilingual Sentiment Analysis model using the Hugging Face Transformers library for sentiment classification tasks.
- Web Scraping: Extracted user comments from review pages using BeautifulSoup and regular expressions, ensuring accurate and efficient data collection
- Data Management: Employed Pandas to organize and store sentiment predictions in a structured DataFrame for analysis and reporting.

Certifications

Supervised Machine Learning: Regression and Classification **Coursera**

Programming in Java **NPTEL**

Foundations: Data, Data, Everywhere **Coursera**

Introduction to Machine Learning **Coursera**

Red Hat Certified System Administrator **Red Hat**
ID: 240-202-291