KISHORE KUMAR R

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EDUCATION

M.Sc Artificial Intelligence and Machine Learning, Coimbatore Institute of Technology July, 2019 - May, 2024
CGPA: 9.2

SKILLS

Programming Languages	Intermediate - C, Python, C++. Beginner - Java, MATLAB, JavaScript
Database	MySQL, PostgreSQL, MongoDB, ChromaDB, Milvus
Frameworks	Scikit-Learn, TensorFlow, PyTorch, LangChain, LangGraph, OpenCV, FastAPI
Technologies	Deep Learning, Fine-Tuning, Ollama, LlamaIndex

EXPERIENCE

AI Engineering Intern Jan, 2024, - Present
SuperAGI *Banglore, India*

- Played a vital role in development of Multi-Agent System architecture with Agent-to-Agent communication protocol that makes communication among multiple agents efficient
- Designed the asynchronized subprocess communication among agents, which reduced the response time by 65%
- Worked on automatic code development tool based on SWE-Agent, improving it by adding summary based file indexing and core execution loop

Project Trainee Intern (ML Research) July, 2022 - Dec, 2022
Bosch Global Software *Coimbatore, India*

- Designed and executed a centralized database solution, seamlessly integrating diverse data sources, culminating in a 30% reduction in data retrieval time and empowerment of real-time analytics
- Engineered an Incremental Machine Learning tool achieving 93% accuracy in analyzing and identifying errors within log files
- Performed a comprehensive comparative analysis on Zero-Shot Learning, Incremental Learning, Topic Modeling, and PreTrained NLP algorithms, resulting in an accuracy enhancement of 3-5%

AI and DS Intern Sep, 2021, - Nov 2021
SeaportAI *Chennai, India*

- Automated Machine Learning models employing VertexAI workbench and improved the detection rate by 15%.
- Conducted an exhaustive comparison of diverse outlier detection algorithms and packages to assess their performance and suitability for the task

PROJECTS

Crypto Market Sentiment and Price Prediction. Developed an API that measures keyword sentiment from Google News and Twitter using HuggingFace Transformers and integrated sentiment score with market insights to predict Cryptocurrency prices using Dual-Stage Attention-Based RNN to offer trading guidance within $15-20 range. GitHub

ASL Sign Prediction. Developed a robust Convolutional Neural Network (CNN) model to accurately predict American Sign Language (ASL) signs, using the Sign Language MNIST dataset, achieving an impressive 95% accuracy. Implemented advanced image preprocessing techniques to enhance model performance and conducted thorough hyperparameter tuning to optimize accuracy. GitHub

PUBLICATIONS

- Published our project titled "Personality Prediction Based on Twitter Tweets" with 81% accuracy in finding MBTI type as a paper in Springer Book series, "Algorithms for Intelligent Systems"
- The project, "Enhancing Intrusion Detection Systems using Hybrid Optimization Approaches" got published in the GRENZE International Journal of Engineering and Technology, showcasing an accuracy of 96.08% and a low False Positive Rate of 0.65%

OTHER WORKS

Engaged in freelance work on Upwork, successfully delivering multiple client projects across various domains.
Finetuned a HuggingFace Transformer model, CryptoBERT which has over 2.7 Million lifetime downloads.
Played an integral role in organizing the Melinia 2023 Open Expo, guiding teams in the development of their projects.