Arthi Sri

Artificial Intelligence Engineer

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EXPERIENCE

AI Intern   Apr '25 - Present
Ayur AI   *Chennai, India*
- Engineered a deep learning pipeline utilizing Transformer architectures to analyze PPG signals for health profiling.
- Implemented learned embeddings to assess Ayurvedic Vikriti Doshas, enhancing interpretability and precision in signal-based diagnostics.

AI Intern   Feb'25 – Apr'25
Bay of Bengal Programme Inter-Governmental Organisation (BOBP-IGO)   *Chennai, India*
- Developed a deep learning system for real-time ship monitoring using SAR satellite imagery.
- Implemented dark vessel detection models to enhance maritime surveillance and coastal security.

Junior Developer Intern   Aug '24 - Oct '24
Skyline Meridian   *Pune, India*
- Hair Width Detection: Designed a U-Net model for hair width detection with 95% accuracy.
- Deployed in clinical applications for precise trichoscopy measurements and analysis.

Deep Learning Intern   Aug '23 - Oct '23
Geosensing and Imaging Consultancy   *Thiruvananthapuram, India*
- Foreign Object Debris Detection: Built a custom CNN model for debris detection, enhancing accuracy by 20%.
- Deployed as a real-time environmental monitoring tool on a cloud platform environment using Flask and Docker.

EDUCATION

Sri Ramachandra Institute of Higher Education and Research   Chennai, India
BTech in CSE and Medical Engineering (CGPA – 8.75)   *2021 – 2025*

SKILLS

Programming Languages: Python, SQL, HTML, R
Tools: VSC, Jupyter Notebook, Docker, Kubernetes, Tableau, Power BI, GitHub, MLflow
Frameworks: PyTorch, TensorFlow, Keras, Scikit-learn, SpaCy, Hugging Face, NLTK, Gensim, LangChain, Flask, FastAPI, LangGraph
Cloud/Database: Amazon Web Services (AWS), MySQL, ChromaDBs
Soft Skills: Communication, Problem-Solving, Critical Thinking, Leadership, Team Collaboration, Curiosity

PERSONAL PROJECTS

Code Generation Assistant Agent using LLM (Github Link)
- Developed a Code Generation Agent using CodeGen-350M-Mono, fine-tuned for accuracy (85%).
- Integrated into a Streamlit app, optimizing repetitive task automation and reducing development time by 30%.

AI-based Negation Detection in Radiology reports using NLP (Github Link)
- Designed LSTM, RNN and Base Learner models using NLP for negation and uncertainty detection in radiology reports (98% accuracy).
- Integrated a Flask-based web app with dashboard analytics and chatbot support, reducing doctors' decision-making time by 25%.

ACHIEVEMENTS

General Secretary, Coding Club, SRET
Placed in the top 12 in the NCVPRIPG'24, IIST
Pitched a Startup idea in the Google for Startups (AI Day for Startups), IITM Research Park
Research Day'24 Winner, SRET

RESEARCH

Evaluation of Base and Deep Learners in Negation Detection from Radiology Reports: A Comparative Study.
IEEE Conference 2024, Mysuru, India

A Deep Learning-based approach for detection of Periodontal Disease using CNN. AIR
Conference, The American University in the Emirates (AUE), Dubai

CERTIFICATIONS

AWS ML Foundation(Amazon Web Services), **Tools for Data Science** (IBM), **Introduction to Generative AI** (Google Cloud)