AHRTHI SURESH

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EDUCATION

University of Massachusetts Amherst	Exp Graduation May 2025
Master's in Computer Science , GPA - 3.81	*Amherst, USA*

TECHNICAL SKILLS

Languages: Python, SQL, R, Golang, HTML5/CSS, Javascript
Developer Tools: Colab, AWS, GitLab, MongoDB, CI/CD Jenkins, Excel
Technologies/Frameworks: Langchain, Pandas, NumPy, Matplotlib, Linux, Jax, Agile, Pytorch, Streamlit
Course work: Machine Learning, Advanced Natural Language Processing, Statistics, Systems in Data Science

EXPERIENCE

Telstra   **July 2021 – Nov 2023**
Software Engineering - Senior Associate   *Bangalore, Karnataka*

- Enhanced Checkmate tool, a Graphical UI and Service API that enables network engineers to perform server checks automatically, utilizing **Golang**.
- Integrated NDS Spine Platform into the Checkmate tool and used **Docker** for containerization, enabling comprehensive device validation.
- Programmed front end pages using **ReactJS** using MUI libraries for Microservices improving user experience and product features
- Developed backend code using **Camunda BPM** and **NodeJs** that helped automate tasks for RF Integrators

Telstra   **Feb 2021 – July 2021**
Business Trainee Intern   *Bangalore, Karnataka*

- Designed an end-to-end Billing Portal using **MERN Stack** to view customer bills and their paying statistics ensuring secure HTTP communication for data retrieval and submission.
- Tested Dell Server Alarms of **10 exchange sites** using **Zenoss** and **Netcool** to provide performance statistics and reports
- Evaluated ORC artefacts like **Splunk** and **Bladelogic** for 10 exchange sites that reduced user reported defects by **25%**
- Worked with internal clients in **2 countries to boost** cross-functional collaborations in the entire operation leveraging strong communication skills and provided technical support.
- Demonstrated strong project management skills by leading a team of 5 developers and coordinating project deliverables.

PROJECTS

Empowering Child Rescue Through Intelligent Information Extraction | *Langchain,Artificial Intelligence* **Feb 2024**
- Developed a **RAG** Application using Open Source **Mistral 7B** model for a child rescue-themed app, processing user uploaded pdf enabling efficient information extraction without manual review while also incorporating **database** management principles with an accuracy of 86%.
- Customized user preferences for information extraction parameters using prompt engineering and utilizing GPU **less than 3 seconds**.

Hybrid Contrastive Adversarial Sentence Embeddings | *Python, Deep Learning, NLP* **Feb 2024**
- Developed a hybrid contrastive adversarial sentence embedding model utilizing CUDA and integrated pre-trained LLMs with contrastive learning and adversarial attacks, achieving an accuracy of 88.96% on the STSB benchmark and 86.6% on the QQP task.
- Performed rigorous evaluations against BERT, RoBERTa, and DistilBERT baselines, demonstrating the hybrid model's superior performance on glue datasets

Youtube Intellibot | Langchain, Streamlit **July 2024**
- Integrated a variety of tools and frameworks including the YouTube API for audio extraction, the **Whisper model** for transcription, and **Langchain** for text processing and summarization.
- Engineered a Bot that significantly enhances user experience by delivering instant video summaries and answers, achieving a 75% reduction in content consumption time.

COMMUNITY SERVICE

UandI   **April 2021**
Volunteer/Teacher

- Taught English to underprivileged kids of ages 7-10.
- Managed to raise funds for educational supplies for the teaching centers.