Jawahar Chandrasekaran

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Education

Master of Science in Computer Science 2025 – Present
The University of Texas at Dallas

Bachelor of Technology in Computer Science and Engineering (AI) 2020 – 2024
Amrita Vishwa Vidyapeetham, Chennai *CGPA: 8.51/10*

Relevant Courses: Machine Learning, Deep Learning, Natural Language Processing, Database Design, Data Structures and Algorithms

Skills & Certifications

Languages: Python, Java, C/C++, SQL, JavaScript, HTML/CSS, MATLAB
Libraries: TensorFlow, PyTorch, scikit-learn, Keras, OpenCV, NumPy, Pandas
Tools/Frameworks: AWS Services, Docker, Git, FastAPI, Flask, React, LangChain
Certifications: AWS Academy Graduate (Cloud Foundations, Cloud Architecting), NVIDIA (RAG Agents with LLMs)

Experience

AI/ML Engineer Nov 2024 – Jul 2025
SkillSync, Singapore

- Owned and deployed the Agent API for the AI Interviewer Platform, integrating LinkedIn data scraping with a fine-tuned GPT model to automate candidate shortlisting, reducing HR manual effort by 33.4%.
- Built FastAPI endpoints for speech emotion and fluency analysis with MongoDB, and maintained cloud deployment using Docker and Caddy to ensure high reliability, scalability, and seamless backend–frontend integration.
- Enhanced platform security by implementing ID verification using vision models and applying advanced prompt engineering on real-time GPT models to create secure, human-like interview interactions.

Data Engineering Intern Jan 2024 - Jun 2024
Hyperverge, Bangalore

- Led the transformation of the 'Lex' system by integrating OCR and advanced LLM technologies, reducing error rates by 54% and improving model efficiency through prompt engineering and optimized data pipelines.
- Implemented scalable API endpoints to handle 180,000+ unstructured documents monthly, collaborating with SDEs and MLEs to optimize workflows, ensure stability, and deliver reliable production deployments.

Publications

- **Non-Invasive Video Analysis Technique for Detecting Sleep Apnea**. CVR 2023, Springer. https://doi.org/10.1007/978-981-99-4577-1_38
- **Attention-Guided Residual Network for Skin Lesion Classification Using Deep Reinforcement Learning**. 2023 ICIICS, IEEE. https://doi.org/10.1109/ICIICS59993.2023.10421742

Projects

- **AG-ResNet for Multi-class Bone Marrow Cell Classification** (Nov 2023 - Dec 2023): Innovated with Torch to create AG-ResNet, enhancing the ResNet50 architecture with Channel and Position Attention Modules. Achieved 97.13% accuracy in classifying bone marrow cells, setting a new standard in precision (0.95) and recall (0.93). [github.com/jawahar1609]
- **Beat-Blending: Song Remixing using Siamese Neural Network** (Feb 2023 - Apr 2023): Developed using TensorFlow and Keras, this project remixes songs by generating and comparing spectrograms, blending similar musical features using Siamese neural network, aiming to bridge the gap in automated music mixing.[github.com/jawahar1609]