

Divi Eswar Chowdary

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EDUCATION

- **Amrita School of Artificial Intelligence, Amrita Vishwa Vidyapeetham** Coimbatore
B.Tech in Computer Science and Engineering (Artificial Intelligence) CGPA: 8.81/10 2020 - 2024 (Expected)
- **Maharishi International Residential School** Kanchipuram
AISSCE (11-12 Std); Stream: Computer Science Percentage: 96.2% 2018 - 2020

TECHNICAL SKILLS

- Programming Languages: Python (Advanced), Matlab (Intermediate)
- Tools/Libraries: TensorFlow, PyTorch, Scikit-learn, HuggingFace, FastAPI, Docker, Langchain, AWS Sagemaker
- Technical Interests: Computer Vision, Natural Language Processing, Efficient Generative AI

EXPERIENCE

- **Schlumberger**
Data Science Intern June 2023 – August 2023
 - Led the development of product embeddings using deep learning techniques like MLP and Transformer architectures.
 - Implemented multitask learning to improve the embeddings ability to capture complex data relationships.

PUBLICATIONS

- Iswarya K V, et al. (2024). "An analysis of data leakage and generalizability in MRI based classification of Parkinson's Disease using Explainable 2D Convolutional Neural Networks". *Digital Signal Processing*. DOI: <https://doi.org/10.1016/j.dsp.2024.104407>
- Eswar Divi, et al. (2023). "Transformer-Based Multilingual Automatic Speech Recognition (ASR) Model for Dravidian Languages". *Automatic Speech Recognition and Translation for Low Resource*, pp. 259–274
- Eswar Divi, et al. (2023). "Going Beyond Traditional Methods: Using LSTM Networks to Predict Rainfall in Kerala." In *Proceedings of the ICCIDA-2023*, Springer. DOI: https://doi.org/10.1007/978-3-031-53717-2_11

PROJECTS

- **MedGPT: GPT for Medical Diagnostics (May 2023 - June 2023)** Developed an medical chatbot by fine-tuning the Llama 2 model using efficient fine-tuning methods. Additionally, incorporated the Retrieval Augmented Generation (RAG) to enhance the output quality of generated responses. For this project, dataset was created by translating an existing Korean dataset into English.
- **RosBot: Self-Driven Robot with Obstacle Avoidance (May 2022 - July 2022)** Designed and implemented RosBot, a self-driving robot with obstacle avoidance, using ROS, TensorRT, Resnet18, and OpenCV. Optimized Resnet18 model with TensorRT for accurate obstacle detection and utilized OpenCV for efficient image processing.
- **CycleGAN Colorization - Adding Life to Grayscale Images (May 2023 - July 2023)** Developed a CycleGAN-based colorization model using deep learning and GANs to automatically infuse grayscale images with vivid colors. Demonstrated expertise in computer vision and advanced image processing techniques.

ACCOMPLISHMENTS

- **AWS AI/ML Scholarship - Oct 2022** Awarded the prestigious AWS AI/ML Scholarship in collaboration with Udacity. Completed comprehensive ML coursework to enhance skills and career prospects in machine learning.
- **Open-Source Contribution** Contributed interactive demos for Scikit-learn during the Hugging Face Sprint, improving documentation through clearer explanations and contributed to documentation for Streamlit.

TEACHING/LEADERSHIP EXPERIENCE

- Conducted a workshop on Introduction to Language Models and Developing Intelligent AI Applications for college students (June 2023).
- Conducted a workshop on AI and Large Language Models, Showcasing the concept of an AI-based exam evaluation system and exploring various AI models such as LLaMA fine-tuning, Whisper, and GPT-4 Vision (November 2023)