Demetrius Asir P

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Education

B.Tech in Artificial Intelligence and Machine Learning CGPA 7.97
Anna University (St. Joseph College of Engineering), Chennai, India *2021 – Present*

Technical Skills

Programming Languages, Libraries and Tools: Python, C, JavaScript,SQL, MATLAB, NumPy, Pandas, Matplotlib, Scikit-learn, OpenCV, Adobe Photoshop, Git, Docker

Deep Learning and Web Development Frameworks: TensorFlow, PyTorch, Keras, Flask, Vite-React, Streamlit

Natural Language Processing (NLP): Transformers (BERT, GPT, etc.), NLTK, Vader-Sentiment, Hugging Face, Lang chain

Achievements

- Cloud Lead, Google Developer Student Club (2022-2024)
- SIH '23 Hackathon and Toycathon 2022 Finalist (Indian Government)

Experience

Machine Learning Intern June 2024 – Present
(Karnataka Hybrid Micro Devices Ltd.) *Bangalore, India*
- Conducted research on the different defects present in Thick Film circuits
- Implemented various Image Processing Techniques and Neural Networks to create a Defect Detection System

Deep Learning Intern Jan 2024 – Mar 2024
(RBG.AI) *Chennai, India*
- Trained various Object Detection Models and Vision Transformers with a dataset which consist of 4000 animal images
- Optimized model performance by 25 percent and engineered a Detection model for identifying animals in forest locations

AI Intern Jul 2023 – Aug 2023
(CodeClause) *Chennai, India*
- Trained a Convolutional Neural Network for handwritten digit recognition and achieved an accuracy of 90 percent
- Crafted a plagiarism detection system using NLP techniques which created a model with an accuracy of 92 percent

Front End Intern June 2023 – July 2023
(Little England Bakery Cafe) *Hosur, India*
- Designed the front-end website application using HTML ,CSS, Javascript and Vite-React enhancing the user experience by 35 percent

Projects

Image Captioning System Mar 2024 – May 2024
Deep Learning Project *Python, TensorFlow, OpenCV*
- Developed an end-to-end system for generating descriptive captions for images
- Utilized BLIP and LSTM models for image feature extraction and caption generation

Attendance Management System April 2024 – May 2024
Deep Learning Project *Python, Flask, TensorFlow,OpenCV*
- Built an Application to automate the attendance-taking process in online meetings using facial recognition
- Utilized LSTM model and Haarcascade for Facial Recognition and Detection and Deployed the application using Flask

Baymax (Chatbot) Dec 2023 – Feb 2024
Natural Language Processing *Python, Streamlit, NLTK, Langchain, Pytorch*
- Developed a Customized Mental Health Assistant Chatbot using Transformers and Transfer Learning
- Implemented a fine-tuned Llama2 model with Langchain and Deployed the Application on Streamlit