NISHAN SANGEETH

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"An enthusiastic Information Technology professional, who is passionate about learning new things and applying them in practical scenarios to make an advancement in people's lives."

WORK EXPERIENCE

Freelancing-upwork   **USA**
AI/ML Engineer   *Des 2023 – Present*

- Implemented a RAG-based chatbot for gcore.com using LangChain and an OpenAI API, users can get the answer step by step according to the question.
- Using ComfyUI, I developed workflows for vid2vid, txt2img and txt2vid with Generative ai techniques.
- I gained experience by working in SDXL Lightning and SD1.5, as well Huggingface models.
- Acquired Depth image, Edge detection and skeleton detection using huggingFace open source models.
- Used Linux server as a working environment and Git used as a version control systems.

Valosens - Flix11 (Pvt) Ltd   **Rajagiriya, Sri Lanka**
Computer Vision Research Engineer   *Jan 2024 – May 2024*

- Obtained experience with LiDAR depth maps and generated depth images datasets.
- Generated point cloud using depth images, and create a dataset for ml model to test human skeleton with subtracted point cloud. Performing a test with TensorFlow Lite and YOLO models.
- Used Linux server and raspberry pi for development.

Aizenit (Pvt) Ltd   **London, England, United Kingdom**
Intern AI/ML Engineer   *Nov 2023 – Jan 2024*

- Utilized Llama2 and Fiass vectorDB to create a document based RAG system named chat-genie-inference.
- Gained hands-on experience with ONNX, BERT, YOLOv8, Transformers and along with Flask API.
- Implement a model by ultralattics for table column detection and segmentation, it is easy to generate data for LLMs.
- Collaboration with team member using Git for version control, and leveraging Azure ML studio to streamline model deployment.

Entgra (Pvt) Ltd   **Dehiwala, Sri Lanka**
Software Engineer Intern   *Feb 2023 – Aug 2023*

- Assisted with full-stack web application, leveraging spring boot for backend and react for dynamic frontend.
- Implemented the ant design for the frontend, enhancing user interface design and user experience.
- Developed Restful APIs endpoint for HTTP operation and utilized postman for API testing and validation.
- Expertise in metadata handling, allowing user to view and manipulate data with precision.
- demonstrated proficiency with Android Studio for thorough testing of mobile application
- Collaborated with team members using version control systems such as Git to organize modifications and assign tasks.

PROJECTS

Diagnosis Of Heart Patients Using Deep Neural Network | ⬈   **July 2021**
Python, React, CNN, Pandas, Keras, Tensorflow, Numpy, Matplotlib, OpenCV, Fast API, Firebase

- Created web applications using CNN, python, fast API, and React to predict whether a person has a heart disease.
- Processed user-inputted information in the back-end of the app to return a subtotal prediction based on the ECG Image input.
- Data preprocessing: Utilized a comprehensive ECG image datase with pandas and OpenCV to convert image to grayscale,resize and save as NumPy arrays.
- Model Development & Integration: Designed a nwural network with sigmoid activation and integrated it into a FastAPI backend, gaind skills in deep learning and full stack development.

Document Question & Answering System | ⬈ *Python, Llama2, Faiss, RAG, Flask, React, JavaScript*   **Sep 2024**

- This is ongoing project, utilizing RAG with Llama2 model going to develop document question and answering website.

Face-mask-classification | ⬀ *Python, keras, Tensorflow*   **Aug 2023**
- utilizing Convolutional Neural Networks (CNNs). This initiative aimed to swiftly and accurately identify mask-wearing individuals. And created a model Achieving over 90% accuracy

Face-mask-classification-using-TransferLearning | ⬀ *Python, CNN, MobileNetV2*   **Sep 2023**
- Employing transfer learning with the MobileNetV2 model, the model had emarkable accuracy, surpassing 92%

Stock-market-value-prediction-LSTM | ⬀ *Python, RNN-LSTM*   **Aug 2023**
- Developing an RNN-LSTM Architecture with Python. the initiative aims to forecast future market opening values and actionable insights.

Question-and-Answering-system | ⬀ *Python, BERT*   **Aug 2023**
- Implemented a state-of-the-art BERT Transformer model to enhance a Question and Answer database by automating answer generation. Trained the model to provide accurate responses to user queries.

Face-classification | ⬀ *Python, Deep-Face, VGG-Face, OpenCV*   **Sep 2023**
- Classification using deep face is used. The VGG-Face model provides users with an easy-to-use interface for classifying images and individuals.Deployed for real-time classification and continuously improved for better results.

Fake-News-Classification | ⬀ *Python, Word2Vec, nltk, PorterStemmer*   **Aug 2023**
- Enhanced using LSTM and one-hot encoding. We preprocess the data with NLTK by removing stopwords and applying Porter stemming. The model achieves a strong 91% accuracy in distinguishing between fake and genuine news.

EDUCATION

Wrexham Glyndwr University   Wrexham, United Kingdom
Bachelor of Computing   Feb. 2023 – Feb. 2024

Institute of Technology University of Moratuwa | ITUM   Diyagama, Sri Lanka
Information Technology Diplomate   Feb. 2020 – Feb. 2023

INTERESTS

Full-stack developer | Artificial Intelligence | Generative AI | Deep Learning | Machine Learning | Computer Vision | Data Science | Software Engineering | Robotics | Internet of Things | Mathematics

SKILLS

Programming Languages: Python, Java, HTML, JavaScript, SQL
Developer Tools: Azure, Anaconda Navigator, Jupyter Notebook, Spyder, Orange 3, VS Code, Postman, NetBeans, IntelliJ IDE, Adobe Photoshop, Google Cloud Platform
Technologies/Frameworks: Linux/Ubuntu, TensorFlow, Keras, PyTorch, FastAPI, Spring Boot, React, Firebase, GitHub
Languages: Sinhala, English
Soft Skills: Problem-solving, Teamwork, Leadership, Adaptability, Fast learning ability, Collaboration, Flexibility

CERTIFICATES

Generative AI and LLMs: Architecture and Data Preparation | ⬀   **Nov 2024**
CertificateID: 9NST356D210X Offered by IBM
Deploy containers by using Azure Kubernetes Service | ⬀   **Nov 2024**
CertificateID: PUHC1NZ7J0W4 Offered by Microsoft
Neural Networks and Deep Learning | ⬀   **Oct 2024**
CertificateID: HDG1Y464XT84 Offered by DeepLearning.ai
Supervised Machine Learning: Regression and Classification | ⬀   **Oct 2024**
CertificateID: RV25G7ZHDE1J Offered by DeepLearning.ai
Python for Beginners | ⬀   **Oct 2022**
CertificateID: rRRZWGDvqC Offered by Open Learning Platform - University of Moratuwa
Scrum foundation professional | ⬀   **Nov 2022**
Offered by SFPC

SOCIETIES

Computer society (ITUM)

Gavel club of ITUM

Rotaract club of UOM

Robotics club of ITUM