PARAS PARANI

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EDUCATION

Masters Of Science - Computer Science   **May 2025**
Florida International University; Miami, FL, USA
GPA: 3.83/4.0

Bachelor of Technology - Mechatronics   **July 2022**
Symbiosis University of Applied Sciences; Indore, India
GPA: 3.71/4.0

SKILLS

Machine Learning & Deep Learning*:* Neural Networks, Transformers, Large Language Model (LLMs), PyTorch, TensorFlow, scikit-learn

Programming Languages*:* Python, SQL, NoSQL, Bash

Software Engineering & Frameworks: Django, Git, REST, APIs, CUDA, cloud platforms (AWS,Azure)

Advance Techniques: Data anomaly detection, Explainable AI (XAI), cloud deployment

Advanced Courses*:* Advance Topic in Machine Learning, Data Structures & Algorithms

Specialized Knowledge: speech and language processing (e.g., **Wav2Vec**, **BERT**), object detection, biomedical data modeling, image recognition

PUBLICATIONS

P. Parani, U. Mohammad and F. Saeed "Utilizing Pretrained Vision Transformers and Large Language Models for Epileptic Seizure Prediction" accepted to the 8th International Conference on Data Science and Machine Learning Applications (CDMA 2024)

EXPERIENCES

Florida International University | Miami, FL, USA   **May 2024 - Present**
Graduate Research Assistant
- Fine-tuning transformer models and Large Language Models (LLMs) for biomedical datasets, including electroencephalogram (EEG) data, resulting in a 15% improvement in model accuracy
- Implementing Explainable AI techniques to enhance model interpretability and trust.
- Conducting analysis of domain shifts to improve generalization in model predictions.

Ignatiuz Software Pvt Ltd | Indore, India   **September 2021 - July 2023**
Senior Associate
- Led development of a Python-based deepfake video project, improving model accuracy by 40% using machine learning algorithms
- Spearheaded the revamp of the Scoutfoto project by integrating Django-based APIs and deploying to Azure, improving operational efficiency by 80%.

CSDG Technologies Pvt Ltd | Indore, India   **May 2020 - July 2021**
Software Developer Intern
- Conducted backend research and optimized frameworks (Django, Flask, Node.js) for cloud deployments on AWS and Azure, leading to a 20% increase in system efficiency.

PROJECTS

UtilLLM_EPS | Miami, Fl, USA   **August 2024**
- Transformed electroencephalogram (EEG) data from MLSPred-Bench for pre-trained Vision Transformers (ViTs) and Large Language Models (LLMs), achieving a 15% improvement in epileptic seizure prediction accuracy

Object Detection Using Pytorch | Miami, Fl, USA   **September 2023**
- Implemented object detection using the resnet_fpn_backbone model, combining ResNet with Feature Pyramid Network (FPN) for enhanced accuracy in image recognition.