PARAS PARANI

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EDUCATION

Masters Of Science - Computer Science (3.83/4.0 GPA) **August 2023 - May 2025**
Florida International University; Miami F
Bachelor of Technology - Mechatronics (3.71/4.0 GPA) **August 2018 - July 2022**
Symbiosis University of Applied Sciences; INDORE, MP

SKILLS

Machine Learning: Deep Learning, Neural Networks, PyTorch, scikit-learn, Numpy, Pandas, captum
Programming Languages: Python, SQL, NoSQL
Relevant Courses: *Advance Topic in Machine Learning*, Database Management Systems and Data Structures & Algorithms
Version Controls & Other: Git, REST API, CUDA
Framework: Django

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

- Creating and refining transformer models and Large Language Models (LLMs) tailored for biomedical data.
- Utilizing Explainable AI (XAI) techniques to analyze and understand model learning processes.

Ignatiuz Software Pvt Ltd | Indore, India **Sep 2021 - July 2023**
Senior Associate

- Led a Python-based deepfake video project, employing advanced machine learning algorithms toproduce highly accurate deepfake videos, improving model **accuracy by 40%**.
- Upgraded Scoutfoto project using **Django**, implemented **APIs**, deployed on Azure, improving **efficiency by 80%**.
- Innovated UiPath-based automation for 5 clients, **automating 60%** of repetitive tasks and cutting process time by 25%.

CSDG Technologies Pvt Ltd | Indore, India **May 2020 - July 2021**
Software Developer Intern

- Conducted in-depth research on backend frameworks (**Django, Flask, Node.js**) and databases (**SQL, MongoDB, PostgreSQL**), leading to their strategic adoption and cloud platform evaluation (**AWS, Azure**), enhancing system **efficiency by 20%**.
- Implemented a Django backend, optimized database design, and developed APIs, boosting system**response time by 50%** and enhancing user experience.

PROJECTS

UtilLLM_EPS | Miami, Fl, USA **August 2024**

- Transformed 2D time series data from MLSPred-Bench to be compatible with pre-trained Vision Transformers (ViTs) and Large Language Models (LLMs).
- Enhanced the accuracy of epileptic seizure predictions by fine-tuning Vision Transformers (ViTs) and (LLMs).

Object Detection Using Pytorch | Miami, Fl, USA **September 2023**

- Implemented an object detection project using the PyTorch **resnet_fpn_backbone** model.
- Combined ResNet architecture with Feature Pyramid Network (FPN) for enhanced image recognition.