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

***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 to produce 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**](https://github.com/Paras1242/UtilLLM_EPS) | Miami, Fl, USA **August 2024**

* Transformed 2D time series data from [MLSPred-Bench](https://github.com/pcdslab/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**](https://github.com/Paras1242/Object-Detection)| 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.