PINDI KRISHNA CHANDRA PRASAD

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INTERESTS

Willing to work towards providing machine learning-based solutions for day-to-day activities.

INTERNSHIP

Internship at Health care and Artificial intelligence (HAI) unit under the professors: C V Jawahar, S Bapi Raju and Vinod PK

International Institute of Information Technology

📅 May 2020 – August 2021   📍 Hyderabad, India

Summer Internship under Dr. Umapada Pal, Head CVPR Unit

Indian Statistical Institute Kolkata

📅 May 2019 – July 2019   📍 Kolkata, India

Winter Internship under Dr. Debashis Nandi

National Institute of Technology, Durgapur

📅 Jan 2019 – Mar 2019   📍 Durgapur, India

PUBLICATIONS

Deep Learning approach for classification and interpretation of Autism Spectrum Disorder

International Joint Conference on Neural Networks (IJCNN)

📅 July 2022   📍 Padua,Italy

Co-tAuthors: Yash Khare, Dr.Kamalaker Dadi, Dr.Vinod PK, Dr.Bapi Raju

A Light Weighted Deep Learning Framework for Multiple Sclerosis Lesion Segmentation

2019 Fifth International Conference on Image Information Processing

📅 Nov 2019   📍 JUIT,India

Co-Authors: Palash Ghosal, Dr. Debashis Nandi

EDUCATION

MS by research in Computer Science, 8.8 CGPA (as of 3rd Semester)
- Under the supervision of Dr. Bapi Raju S

IIIT-Hyderabad

📅 Jan 2021 - Present

B.Tech, Information Technology, 8.68 CGPA

NIT-Durgapur

📅 July 2016 - July 2020

POSITION OF RESPONSIBILITY

- Core committee Member of Entrepreneurship Cell, CCA, NIT Durgapur.
- Executive member in Youth Parliament 4.0 (a mock parliament event) in NIT Durgapur, 2019.

PROJECTS

Dynamic Functional Connectivity Analysis in individuals with Autism Spectrum Disorder

- The main aim of this project is to understand the fundamental group differences between Autism subtypes such as Autistic, Asperger's, Pervasive Developmental Disorder and Typically developing subjects using Dynamic Functional Connectivity (DFC) analysis.

Classification and Interpretation of Autism Spectrum Disorder

- Proposed a Multilayer Perceptron based classification model with autoencoder pretraining for classifying ASD from Typically Developing (TD) using resting state functional MRI scans obtained from the ABIDE-1 dataset.
- Our model achieves new state-of-the-art performance on the ABIDE-1 dataset with a 10-fold cross-validation accuracy of 74.82%.

Classification of brain glioma subtypes using histopathology images

- Proposed a patch based weakly supervised method for the classification of Astrocytoma and Oligodendroglioma low grade glioma tumors using gigapixel whole slide (histopathology) images.

Multiple Sclerosis Lesion Segmentation

- Developed a Light-weighted Deep Learning framework for the automatic Multiple Sclerosis lesion segmentation from the MRI scans using MICCAI 2016 dataset which outperformed the popular U-Net architecture in terms of training time, accuracy and complexity.

Text-Independent Writer Identification

- Developed a Convolutional Neural Network for offline text-independent writer identification on Kannada dataset.

MOOC

Machine Learning with Python

📅 Jun 2020   📍 **Coursera**

Deep Learning Specialization

📅 OCT 2021   📍 **Coursera**

SKILLS AND INTERESTS

- Python
- Data Structures and Algorithms.
- Data Analysis and Visualization using Seaborn.
- Numpy, Pandas, Matplotlib, Seaborn, Scikit-learn, Opencv, Nilearn(for processing MRI data) and OpenSlide(for processing Histopathology data)
- Pytorch.