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-Authors: 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

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

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 rsfMRI scans obtained from the ABIDE-1 dataset.

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 images.

Text-Independent Writer Identification
- Developed a Convolutional Neural Network for offline text-independent writer identification on Kannada dataset

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.

Brain Glioma Segmentation
- Developed a CNN based modified network architectures using attention mechanism for segmentation of brain tumor regions (Whole, Core, Enhance) from multi-class brain MRI BRATS 2015 Dataset.

Summer Internship Portal NIT Durgapur
- Created a platform where students from various colleges can apply for Summer Internship in NIT Durgapur.
- Tools used : HTML, CSS, JavaScript, PHP, MySQL.

MOOC

Machine Learning with Python

📅 Jun 2020   📍 Coursera

Deep Learning Specialization

📅 OCT 2021   📍 Coursera

SKILLS AND INTERESTS

Programming Languages
- C, Java, Python.

Core Skills
- 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, Keras.