
SHASHIKANTA SAHOO

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EDUCATION

Government College of Engineering Kalahandi, Bhawanipatana, (BPUT) Odisha 2019 - 2023
Bachelor of Technology in Electrical Engineering , GPA: (3.6/4)

AREA OF INTEREST

Computer Vision (Video Analytics, Activity Recognition), Nature Language processing (Text Summarization, Dialect Detection)

EXPERIENCE

Research Associate 07/2023 - Present
Image Processing and Computer Vision lab, IIT Madras.
Guided by Prof. A.N. Rajagopalan
I am working in the Problem statement related to multi-instance and multi-label (MIML) in videos for Sports Analytics .

RESEARCH INTERNSHIP

Research Internship 10/2022 - 02/2023
Silo AI, Finland . Guided by Dr. Shantipriya Parida.

- Project Title:- "MVQA: A Multilingual Visual Question Answering Framework"
- Conducted experiments with the following two multimodal tasks: Visual question answering (VQA), and Visual question elicitation (VQE).
- Proposed BERT & Vision Transformer architecture for Visual question answering task (VQA) and ResNet-50 & LSTM architecture for Visual question elicitation (VQE).

Research Internship 03/2023 - 05/2023
Centre of AI and Robotics, IIT Mandi, India Guided by Dr. Amit Shukla

- Project Title:- "Fault Diagnosis & Prediction in a feeder pump Using Deep Learning".
- Proposed Recurrent Neural Networks and 1D convolution neural network for prediction of Fault in feeder pump.

Summer Research Internship 05/2021 - 07/2021
NIT Rourkela, India. Guided by Dr. Santos kumar Das.

- Project Title:- "Fully Convolutional Network Bootstrapped by Word Encoding and Embedding for Activity Recognition in Smart Homes" .
- Proposed the Classification performance of Fully Convolutional Network (FCN) from Time Series Coupling (TSC), applied for Activity Recognition in Smart homes, Which is compared with the existing model where researcher used Long Short Term Memory (LSTM).

Summer Research Intern 06/2021 - 07/2021
IIT Kharagpur , India Guided by Prof. Raja Datta

- Guides: Mr. Deborsi Basu (Ph.D. Student, Indian Institute of Technology, Kharagpur), Prof. Uttam Ghosh (Vanderbilt University, USA), and Prof. Raja Datta (Indian Institute of Technology, Kharagpur)
- Jointly contributed to a Book Chapter for the Elsevier Book on Deep Learning Empowered Security in Smart Cyber Physical Systems.

PROJECTS

1)"BengaliGPT: An Instruction Following LLaMA Model for Bengali"

- Proposed an instruction following the BengaliGPT model for the Bengali language, the seventh most spoken language in the world.
- We benchmarked the BengaliGPT model using a standard LLM benchmark dataset. The developed BengaliGPT will be available freely for research and non-commercial purposes.

2) "Skin Cancer Classification by using Transfer Learning model"

- Proposed a Skin Cancer Classification by using VGG16 as a Pretrained Model and classification using Random Forest.
- Achieved the accuracy of 85% - 87% for Skin Cancer Classification.

3)"Check box Detection"

- I was involved from initial part for creating dataset to create image classification models to do the task.
- Proposed baseline CNN based algorithm, which gives accuracy around 95% under the Guidance of Nirmal Patel at Playpower Labs.

PUBLICATIONS

1)"MDOLC: Multi Dialect Odia Song Lyric Corpus"

Shantipriya Parida, Alakananda Tripathy, Satya Ranjan Dash, and Shashikanta Sahoo

International Conference on Recent Advancements in Artificial Intelligence and Soft Computing - ICAISC-2022(Published)

SKILLS

Language: Python, C, Matlab.

Framework: Tensorflow,pytorch,Matplotlib,Pandas,Numpy,Open Cv,Keras

ONLINE COURSE WORK

- Machine learning (Stanford University)
- Python for Everybody (University of Michigan)
- Image Signal Processing (IIT Madras)
- Deep Learning for Computer Vision (IIT Hyderabad)

HONORS AND AWARDS

- Class of the merits among 160 Students in matriculation.
- Secured 1st prize in Debate Competition from Govt. Of Odisha.
- Secured top 10% in 12th examinations among 2laks student awarded by Biju Laptop Jojona.
- Runners up in Quiz Competition organised by RBI.
- State representative for Scout and Guide Organization.

ACTIVITIES

- Participation in Entrepreneurship cell at IIT Delhi.
- Our College representative at Campus Ambassador program at IIT Bombay.
- Member of Kiloboot (GCEK Robotics Society)•Member of Coding Society.
- Internshala Student Partner-17
- Campus Ambassador program AT IIT Ropar.