Bibhash Pran Das

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Portfolio: **bibhash123.github.io/**

Education

National Institute of Technology, Rourkela July. 2018 – Present
B.Tech in Electronics and Instrumentation Engg., Minor in Computer Science and Engg. *CGPA: 8.91*

Experience

University College Dublin, Ireland May. 2021 – Nov. 2021
Summer Research Intern

- Formulate methodology for surface NO2 concentration estimation based on satellite data
- Collect, analyze and clean Sentinel 5-Precursor satellite Data
- Paper published at PIERS 2021

Intelligent Systems Laboratory, NIT Rourkela October 2020 – May 2022
Undergraduate Research Assistant

- Proposed a method for estimation of resizing factor for a double compressed JPEG image
- Developed deep learning pipeline for the task yielding accuracy of 83% which beats previous benchmarks.
- Conference paper published at IEEE ICORT 2021

Publications

B. Das, M. Biswal, A. Panigrahi, M. Okade, "CNN Based Image Resizing Detection and Resize Factor Classification for Forensic Applications", *IEEE International Conference on Range Technology, 2021* 10.1109/ICORT52730.2021.9581459

B.P. Das, M.S. Pathan, Y.H. Lee, S. Dev, "Estimating Ground-level Nitrogen Dioxide Concentration from Satellite Data", *Photonics and Electromagnetics Research Symposium (PIERS) 2021* 10.1109/PIERS53385.2021.9694752

Projects

Content Based Image Captioning | *Python, Flask, Tensorflow,HTML/CSS* March 2021

- Developed a web application using Flask serving a Tensorflow model with a HTML/CSS frontend
- Trained an end to end model using InceptionV3 and LSTM architectures and deployed web app. Link Here

ICU Patient Health Monitoring Systems | *Python,Scikit-Learn,Flask,HTML/CSS* January 2021

- Developed sensor framework to record and transmit patient vitals and parameters in real time
- Designed and deployed ML model to predict life expectancy based on this data with accuracy of 90% Link Here

Neural Style Transfer for Images | *Python,Tensorflow,Flask,HTML/CSS* October 2020

- Developed a pipeline for style transfer for images based on research by Gatys et al
- Used tensorflow framework to implement model and flask to deploy it Link Here

Technical Skills

Languages: Python, C++, C, MySQL, HTML5/CSS
Frameworks & Libraries: Tensorflow, Keras, Pytorch*, Pandas, Numpy, Scikit-learn, openCV, PIL, NLTK, Seaborn, Matplotlib, Plotly, Flask, Selenium, BeautifulSoup
Developer Tools: GIT, Github, PyCharm, GoogleColab

Achievements

Academic Excellence Award 2018
Received academic excellence award from the branch of EIE

Google Brain Ventilator Pressure Prediction Challenge(Kaggle) 2021
Ranked in top 5%

Extra Curricular Experience

Coordinator at ML4E 2020 – 2021
Official Machine Learning club of NIT Rourkela

Member at Leo NIT Rourkela 2018 – 2022
Social Service club