

Bibhash Pran Das

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Github: github.com/bibhash123

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 – Present

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 – Present

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 & 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

Analytics Vidhya Cross Sell Prediction

2020

Ranked in top 0.14%

EXTRA CURRICULAR EXPERIENCE

Coordinator at ML4E

2020 – 2021

Official Machine Learning club of NIT Rourkela

Member at Leo NIT Rourkela

2018 – Present

Social Service club