

Bibhash Pran Das

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EDUCATION

National Institute of Technology, Rourkela <i>B.Tech in Electronics and Instrumentation Engg., Minor in Computer Science and Engg.</i>	July. 2018 – Present CGPA: 8.91
Maharishi Vidya Mandir Public School, Guwahati <i>Intermediate</i>	May 2015 – June 2017 Percentage: 96.2%

EXPERIENCE

University College Dublin, Ireland <i>Summer Research Intern</i> <ul style="list-style-type: none">Formulate methodology for surface NO2 concentration estimation based on satellite dataCollect, analyze and clean Sentinel 5-Precursor satellite DataExtended abstract accepted for PIERS 2021	May. 2021 – Present
Intelligent Systems Laboratory, NIT Rourkela <i>Undergraduate Research Assistant</i> <ul style="list-style-type: none">Proposed a method for estimation of resizing factor for a double compressed JPEG imageDeveloped deep learning pipeline for the task yielding accuracy of 83% which beats previous benchmarks.Conference paper accepted at IEEE ICORT 2021	October 2020 – Present

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*
(Accepted for presentation)

PROJECTS

Content Based Image Captioning <i>Python, Flask, Tensorflow, HTML/CSS</i> <ul style="list-style-type: none">Developed a web application using Flask serving a Tensorflow model with a HTML/CSS frontendTrained an end to end model using InceptionV3 and LSTM architecturesDeployed application on heroku: Link Here	March 2021
ICU Patient Health Monitoring Systems <i>Python, Scikit-Learn, Flask, HTML/CSS</i> <ul style="list-style-type: none">Developed sensor framework to record and transmit patient vitals and parameters in real timeDesigned ML model to predict life expectancy based on this data with accuracy of 90%Deployed as web application using flask: Link Here	January 2021
Neural Style Transfer for Images <i>Python, Tensorflow, Flask, HTML/CSS</i> <ul style="list-style-type: none">Developed a pipeline for style transfer for images based on research by Gatys et alUsed tensorflow framework to implement model and flask to deploy itDeployed web application: Link Here	October 2020

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 <i>Received academic excellence award from the branch of EIE</i>	2018
Analytics Vidhya Cross Sell Prediction <i>Ranked in top 0.14%</i>	2020

EXTRA CURRICULAR EXPERIENCE

Coordinator at ML4E <i>Official Machine Learning club of NIT Rourkela</i>	2020 – 2021
Member at Leo NIT Rourkela <i>Social Service club</i>	2018 – Present