Bibhash Pran Das

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

Education

National Institute of Technology, Rourkela July. 2018 – June 2022
B.Tech Electronics & Instrumentation Eng., (Minor) Computer Science & Eng. *CGPA: 8.88*

Maharishi Vidya Mandir Public School, Guwahati May 2015 – June 2017
Intermediate *Percentage: 96.2%*

Experience

Software Engineer I, Microsoft July. 2022 – Present
YOE: 1 year 5 months

- Spearheaded the development of a solution for safeguarding sensitive information in cold data within Microsoft Purview Data Security offerings, enhancing organizational data protection.
- Collaborated extensively with diverse teams and product management to formulate both high-level and low-level designs, ensuring smooth integration of software components.
- Implemented test-driven development practices and adhered to software design principles, focusing on building robust and maintainable software solutions.
- Played a pivotal role across the product pipeline, working on large-scale distributed systems and microservices to contribute to the overall success of product.

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

- Formulated ANN based methodology for surface NO2 concentration estimation based on satellite data with Root Mean Squared Error of 7.20 μg/m3
- Published a conference paper (PIERS 2021) and a journal paper (IEEE JSTARS)

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

- Developed deep learning pipeline for estimation of resizing factor for a double compressed JPEG image yielding accuracy of 83% performing better than SOTA.
- 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 ICORT, 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", *PIERS 2021*, 10.1109/PIERS53385.2021.9694752

P. Dey, **B. P. Das**, Y. H. Lee and S. Dev, "NeSNet: A Deep Network for Estimating Near-Surface Pollutant Concentrations," in *IEEE JSTARS*, vol. 16, pp. 3797-3804, 2023, 10.1109/JSTARS.2023.3244719

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

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: C#, Python, C++, C, SQL, JavaScript, HTML5/CSS
Frameworks & Libraries: .Net 6.0, Tensorflow, Keras, Pytorch*, Pandas, Numpy, Scikit-learn, Seaborn, Matplotlib, Plotly, Flask, Selenium, BeautifulSoup
Developer Tools & Software: GIT, Github, Visual Studio, Jupyter