Ahsan Ul Islam

https://ahsankafco.github.io/ ahsankafco@gmail.com | 936.668.0239

SKILLS

PROGRAMMING

Python(NumPy,Pandas,Scikit-learn Keras,Matplotlib,seaborn,PyTorch, Flask) SQL Java, HTML, C and C++ MATLAB

MACHINE LEARNING

Deep Learning
Edge Detection
ML Algorithms
Time Series Forecasting
Image Feature Extraction
Image Classification
Natural Language Processing
Data Visualization

SOFTWARE

Anaconda
Jupyter Notebook,Google Colab
Pycharm
Git and Github
MySQL and Oracle
Eclipse
Code::Blocks

EDUCATION

MS, COMPUTING AND DATA FOR PUBLICATION SCIENCE • Investigated and

SAM HOUSTON STATE UNIVERSITY Exp December 2023 | Huntsville, Tx Thesis: Gender and Ethnicity Bias in Deep Learning CGPA-3.87

BS, ELECTRICAL AND ELECTRONICS ENGINEERING

AMERICAN INT. UNIVERSITY-BD Dec 2015 | Dhaka, Bangladesh Graduated with Honors CGPA-3.80

LINKS

Github://ahsankafco LinkedIn://ahsankafco

EXPERIENCE

SHSU | GRADUATE ASSISTANT/RESEARCH ASSISTANT

May 2022 - present | Huntsville, Tx

- Assisting the instructor in the tasks of taking attendance, exam proctoring, collecting assignments, grading, and recording all data.
- Tutoring and mentoring for Database Systems, Database Security, Data Mining, Computer Networks, Programming Fundamentals and Software Engineering courses.
- Working As a researcher of U.S. Department of Homeland Security summer 2022 and 2023 projects- SWIR project and SNA project.

4K ENGINEERING(CONTRACTUAL) FOR ROBI AXIATA LTD RNO

Project Manager

Jan 2018 – April 2022 | Dhaka, Bangladesh

- Extensive experience as a Radio Network Design and Optimization Engineer at Robi, specializing in 2G/3G/LTE networks.
- Proficiency in finalizing FAC procedures for 3G and LTE clusters, generating specialized CTO reports, and conducting RNP simulations for optimal coverage and capacity.

4K ENGINEERING(CONTRACTUAL) FOR ROBI AXIATA LTD RNP | PROJECT COORDINATOR

Jan 2016 – Dec 2017 | Dhaka, Bangladesh

- 2G/3G/4G Radio Network Design and Optimization Engineer at Robi Axiata LTD, with expertise in parameter mapping, network merger projects, and KPI optimization.
- Proficient in planning and maintaining network quality, conducting RF issue diagnosis, and strategic planning for marketing events.

RESEARCH PROJECTS

GENDER AND ETHNICITY BIAS IN DEEP LEARNING-SUBMITED FOR PUBLICATION

- Investigated and mitigated gender and ethnicity bias in AI models through comprehensive analysis and innovative strategies.
- Conducted in-depth evaluations of model performance, including precision, recall, and F1-score metrics, to address bias concerns effectively.

SOCIAL NETWORK ANALYSIS USING DEEP LEARNING-PUBLISHABLE

- Conducted advanced network analysis of the Enron email dataset, identifying key communication hubs and central actors.
- Employed state-of-the-art transformer-based language models (BERT, RoBERTa, XLNet) for sentiment analysis and optimized accuracy through ensemble technique.

EXECUTION EXAMINATION OF DISTINCTIVE EDGE DETECTION ALGORITHMS-PUBLISHED

- Conducted research on edge detection techniques, specifically focusing on evaluating the performance of Canny and Prewitt methods on satellite images
- Employed IQA metrics (SSIM, MSE, PSNR, RMSE) to assess image quality, finding Canny edge detection superior to Prewitt for satellite images with Gaussian noise.