

Ahsan Ul Islam

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SKILLS

PROGRAMMING

Python(NumPy,Pandas,Scikit-learn
Keras,Matplotlib,seaborn,PyTorch,
Flask)
SQL,Azure,AWS and CI/CD pipelines
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

TOOLS

tableau, Power BI
Jupyter Notebook,Google Colab
Anaconda,Pycharm
Git and Github
MySQL,Oracle and MongoDB
Eclipse

EDUCATION

MS, COMPUTING AND DATA SCIENCE

SAM HOUSTON STATE UNIVERSITY
Exp December 2023 | Huntsville, Tx
CGPA-3.87

BS, ELECTRICAL AND ELECTRONICS ENGINEERING

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

CERTIFICATION

IBM:// Data Science Professional
Google:// Google Data Analytics

LINKS

Github:// ahsankafco
LinkedIn:// ahsankafco

EXPERIENCE

SAM HOUSTON STATE UNIVERSITY | GA OR RA

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 JR. DATA SCIENTIST

Jan 2018 – April 2022 | Dhaka, Bangladesh

- Assist in developing NLP and analytics pipelines for specific projects, such as Lossinger Marazzi and goal detection in Football games
- Support data analysis and experimentation, including working on chatbots, data warehouse techniques, data cleaning, and recommendation systems.
- Contribute to the development of machine learning models, APIs, and data services, as well as assist in the maintenance of cloud services and task management.

4K ENGINEERING | DATA ENGINEER

Jan 2016 – Dec 2017 | Dhaka, Bangladesh

- Implement DataOps methodologies for ETL processes, ensuring efficient data handling across various tools and architectures.
- Manage data lake and pipelines to support key applications and systems, aligning them with business needs.
- Drive data quality improvement, establish version control, and contribute to data pipeline development standards for enhanced database integrity.

RESEARCH PROJECTS

GENDER AND ETHNICITY BIAS IN DEEP LEARNING-ACCEPTED FOR IEEE CONFERENCE

- 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 -SUBMITTED FOR JOURNAL

- 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.