Sakib M Ibtesum

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WORK EXPERIENCE

Research Assistant
Sep 2021 - Mar 2022
Economic Research Group
Dhaka, Bangladesh

- Conducted comprehensive data analysis using **Python** to support economic research projects.
- Utilized **MLflow** to develop end-to-end predictive modeling suite, improving forecasting accuracy by 15%.
- Led the implementation of ML workflows, reducing policy recommendation processing time by 2 days.

Research Assistant
May 2021 - Mar 2022
North South University
Dhaka, Bangladesh

- Co-developed real-time speech translation system achieving **BLEU score of 48.98** using Transformer architecture.

- Executed data preprocessing, model training, and hyperparameter optimization for NLP system.

EDUCATION

Technical University of Dortmund
Apr 2023 - Present
MSc Data Science
Dortmund, Germany

- Masters Seminar: Leveraging AI and Transformer Models for Depression Detection and Behavioral Insights in Social Media. (Note- 2.0)

North South University
Jan 2017 - Apr 2021
BSc Computer Science and Engineering (AI Specialization, GPA 1.7)
Dhaka, Bangladesh

- Thesis: Real-Time Speech-to-Speech Translation from Bengali to English with BLEU 48.98 (Grade: 1.3).

PROJECTS

Kidney Disease Classification with MLFlow/DVC | *Python, AWS*
Sep 2024

- Implemented CI/CD pipelines for automated model tracking and deployment on AWS EC2/ECR.

ATS Resume Scanner with LLMs | *Google Gemini Pro*
Sep 2024

- Developed end-to-end applicant tracking system using large language models.

CERTIFICATIONS

Neural Networks and Deep Learning | *DeepLearning.AI*

- Covered ANN architectures, backpropagation, and deep learning fundamentals.

NLP with Attention Models | *DeepLearning.AI*

- Implemented transformer architectures for machine translation and text summarization.

SPECIAL KNOWLEDGE AND SKILLS

Scripting and programming languages: Python, R, SQL, Keras, Scikit-learn, Numpy, Pandas, Tensorflow, HTML/CSS
Container-Management: Docker
Version Control: Git, GitHub
Cloud: AWS (EC2, ECR)/Azure
Operating System : Windows, MAC
DEVOPS & MLOPS : MLFLOW, DVC, CI/CD-Pipelines, Flask, Streamlit
Language skills: German (A2+), Englisch (C1), Bengali (Native), Hindi