

Anan Ghosh

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Career Objective

Currently, I am a Computer Engineering graduate student at North South University. I'm an enthusiastic software engineer that enjoys doing analytical work and has a keen interest in machine learning and pattern recognition. I'm now working in the fields of machine learning and neural networks. To compensate for complexities and analytical work, I'm interested in devising better problem-solving approaches and trying out new technologies and tools as needed.

Education

North South University

BACHELOR OF ENGINEERING IN COMPUTER SCIENCE
Cgpa: 3.15

Dhaka, Bangladesh

Jan 2018 - May 2022

Bangladesh Nou Bahini College

SECONDARY HIGHER EDUCATION

Chittagong, Bangladesh

2015 - 2017

Chittagong Govt. High School

SECONDARY EDUCATION

Chittagong, Bangladesh

2009 - 2015

St.Marry's School

PRIMARY EDUCATION

Chittagong, Bangladesh

2003 - 2008

Skills

Languages Python, Java, C++, C, HTML, CSS

Libraries and Frameworks Django, Pandas, Matplotlib, OpenCV, Scikit learn, Numpy

Deep Learning Pytorch(Basic), Tensorflow(Basic)

Database MySQL, Firebase

Other Git, Slack, Trello, LaTeX, Collaborative Teamwork and Leadership, Delegating Work Assignments

Academic Research

Emotional Reactions and Family Resilience During COVID-19 Lockdown Period among Bangladeshi Families This is a research project that focuses on the emotional emotions and family resilience of Bangladeshi families during the COVID-19 lockdown period. The purpose of the study is to learn more about how the structure of the family affects the emotional states of families during lockdown.

Image synthesis with Normalizing Flows We applied Normalizing flows to help produce additional synthetic X-Ray image samples of chest X-Rays that tested positive for COVID-19 for this study. We present our technique to creating synthetic pictures using normalizing flows, as well as the theory underlying normalizing flows and the overall outcomes, in this study.

Cardiac Arrhythmia Data Monitoring and Crowd-sourcing Framework Each person has the ability to keep track of their ECG graphs (relying on the date and time) and cardiac arrhythmia symptoms. Data may be pushed for verification along with predicted beats. Doctors can check each forecasted beat from a separate gateway and, if required, alter the labeling. The model is automatically trained every week using the most recent dataset and modified as required.

Training Pruned Language Model A more greener, resource-saving, and substantially smaller model may be accomplished as well as a bigger model by lowering storage needs and enhancing inference computing efficiency without losing comparative performance in distinct down-streaming tasks. This model can also be used as a few-shot learner, with the network's sparsity rate trimmed up to 90%. Using the Lottery Ticket Hypothesis, this few shot learning model may be reduced without compromising performance on Bangla NLP tasks.

Academic Projects

Janao In a densely populated country like Bangladesh, local law enforcement institutions struggle to provide protection to the majority of the population. A user may easily report crimes to a secure database using the Flutter-based app, and the local law enforcement agency can then take necessary action based on the information.

Document Management System The goal of this project is to digitize existing Department of Finance records and data. The converted digital format will be stored at a storage location determined by the Department of Finance, where it will be attached using a simple document system capable of search and retrieval

Airline Management We will create a database for a random commercial airline, complete with staff, positions, and personal data/information, as part of this project. Varied plane types, itineraries, and different routes are appropriate for different classes. We can easily run an airline company if we have authority over this sort of data.

Safe Education In this project, we are attempting to create programs that will secure the question paper. The question paper will be encrypted once it is uploaded into the program. Only those with authorization can use a password to gain access to this program. The question paper will then be decrypted and returned to its original form.

Achievement

- Midnight Hackathon-First Place, NSU ACM Research and Development

VOLUNTEER EXPERIENCE

NSU ACM Student Chapter

SUB EXECUTIVE

Dhaka, Bangladesh

February 2021 - February 2022

NSU ACM Student Chapter

IN-CHARGE

Dhaka, Bangladesh

January 2020 - January 2021