

Nahian Ibn Asad

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OBJECTIVE

To become a promising computer engineer who is passionate about different arenas of computer science. Eagerly looking forward to accomplishing something phenomenal endowing my expertise.

EDUCATION

BSc. in Computer Science and Engineering, Islamic University of Technology (IUT), Board Bazar, Gazipur, Bangladesh.

January, 2019 – May, 2023

CGPA – 3.92 (Out of 4)

Higher Secondary Certificate (HSC), Birshreshtha Noor Mohammad Public College, Peelkhana, Dhaka, Bangladesh.

June, 2016 – May, 2018

GPA – 5.00 (Out of 5)

Secondary School Certificate (SSC), Birshreshtha Noor Mohammad Public College, Peelkhana, Dhaka, Bangladesh.

January, 2014 – February, 2016

GPA – 5.00 (Out of 5)

[Received government scholarship for achieving an outstanding result]

RESEARCH EXPERIENCE

Recognizing Traffic Signs using Fine-tuning Based Few-Shot Object Detection

[August, 2022 - Present]

- The objective of this thesis topic is to accurately recognize a wide range of traffic sign classes with a small number of examples.
- Adapt to variations in traffic sign appearance such as lighting, weather.
- Operate efficiently in real-time.
- Writing a research paper proposing a new model.

Bank Management System

[January, 2020 - June, 2020]

- Built this project using C++.
- Included two types of accesses, for admin and customer separately.
- Ensured every secret information as password protected.
- Admin can access some features that customers don't have access to.
- Used XAMPP and the database is accessed using localhost.
- Implemented an alluring GUI which makes the project more attractive.
- GitHub link: <https://github.com/Nahian36/Bank-Management-System>

Media File Editor

[June, 2020 - January, 2021]

- Used FFmpeg (Fast Forward MPEG) which is a command-line tool that works with different media file formats.
- Used Java here as the supporting language.
- Added features like trimming, merging and enhancing audio/video files easily.
- Included filtering, scaling, cropping images.
- GitHub link: <https://github.com/Nahian36/Media-File-Editor>

MusiChat

[April, 2021 - October, 2021]

- A media file mobile app using React Native.
- People can chat with those who are listening to the same songs, watching similar videos and reading the same pdf files.
- Firebase (NoSQL database), Node and Android Studio are also used.
- GitHub link: <https://github.com/Nahian36/MusiChat>

Expense Tracker

[April, 2021 - October, 2021]

- A mobile app using React Native for managing expenses.
- Generates 16 different graphs of expense, income and profit.
- Personal data encryption and other alluring features.
- MySQL database, XAMPP and Android Studio are also used.

GitHub link: <https://github.com/Nahian36/Expense-Tracker>

Bangla Math Solver

[November, 2021 - April, 2022]

- A web app to solve simple Bangla handwritten expressions.
- Used Support Vector Classifier (SVC) and Radial Basis Function (RBF).
- Streamlit is used for the interface along with the Google Colab.
- Users can upload images or draw expressions in canvas to get the result.

INTERNSHIP

October, 2021 -
January, 2022

TigerIT Bangladesh Limited

Contributed directly to some Machine Learning working projects based on-

- Speech Recognition (Voice checking of raw audio files)
- Natural Language Processing (NLP) (Numeric normalization of Text-to-Speech, TTS with Python)
- Computer Vision (Face filters in TigerIT's app using React JS)

TECHNICAL SKILLS

- **Programming Languages:** Python, C, C++, JAVA, MATLAB
- **Scripting Languages:** HTML/HTML5, CSS/CSS3, JavaScript, Bash
- **Platforms/Libraries:** Express.js, Node.js, React JS, React Native, OpenCV, NumPy, Alan AI, Firebase
- **Database:** MySQL, Oracle, MongoDB
- **Web Servers:** XAMPP
- **Application Programs:** Microsoft Office (Word, Excel, PowerPoint)
- **Operating System:** MS-Windows, Linux (Pop!_OS 22.04)

CERTIFICATIONS

- Foundations: Data, Data, Everywhere (Google Data Analytics Professional Certificate), Google (2021)
- Programming for Everybody (Specialization in 5 courses), University of Michigan (2020)
- Mathematics for Machine Learning (Specialization in 3 courses), Imperial College, London (2020)
- Excel Skills for Business: Essentials, Macquarie University (2020)
- Introduction to Structured Query Language (SQL), University of Michigan (2020)
- JavaScript Algorithms and Data Structures, freeCodeCamp (2021)
- Responsive Web Design, freeCodeCamp (2021)
- Neural Networks and Deep Learning, DeepLearning.AI (2021)
- Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization, DeepLearning.AI (2021)
- Structuring Machine Learning Projects, DeepLearning.AI (2022)
- Convolutional Neural Networks, DeepLearning.AI (2022)

EXTRA CURRICULARS

- Volunteer coordinator in ICT FEST, 2019.
- Strong leadership and communication skills exhibited by role taken as a representative of the CSE department and class projects.
- Player of IUT CSE cricket team.

LANGUAGE SKILLS

- English, full professional fluency
- Bengali, full professional fluency

SOFT SKILLS

- Actively contributed to a group endeavor targeted at obtaining effective solutions, demonstrating collaboration and teamwork skills.
- Showed self-motivation and desire to learn new abilities to handle practical problems.
- Exhibited multitasking ability by effectively handling multiple projects and tasks at the same time.