



SAYED ABU NOMAN SIDDIK

BSC in Computer Science and Engineering

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Skills

Machine Learning: supervised and unsupervised models, NLP (BERT), reinforcement learning

Mathematics: numerical optimization, gradient descent, dynamic programming

Database: Mysql, SQLite, Firebase, SPARQL, OWL

Web Development: HTML, CSS, Django, Flask, Javascript, API, JQuery

Toolbox

Github Ubuntu Latex

SQL MS Office CSS Excel HTML

Django Flask Python C++

Coding

Python: numpy, scipy, pandas, sklearn, XGBoost, LightGBM, pytorch, seaborn

Haskell: Data Models, Types, Functions, Monads, Functors, Modules, Zipper

Django: MVT, ORM, URL Routing, Authentication, Rest API, Deployment

Misc: Perl, PHP, C++, Java, Dart, Pascal

Profile

I'm **Noman**, a fourth-year North South University student, and aspiring software engineer. Working on backends, APIs, and databases is something I'm interested in, and I'm now learning about web applications and functional programming. A dedicated, hardworking newcomer who enjoys learning new things. I'm seeking an opportunity that will allow me to put my abilities and knowledge to good use. I'm looking for an opportunity where I can put my skills and experience to good use. I have substantial teaching and software development experience, which has taught me how to work under pressure while maintaining professionalism.

Education

2018 - now **BSC in Computer Science and Engineering** North South University
Specialization: Software Engineering and Networks
CGPA: 3.82/4.00

2015 - 2018 **College Education** Uttara High School & College
Higher Secondary School Certificate (2017)
GPA: 4.67/5.00

2005 - 2015 **School Education** Baunia Abdul Jalil High School
Secondary School Certificate (2015)
GPA: 5.00/5.00

Work Experience

2021 **M-Developers Team** Mamu Delivery and Courier Services
Position: Backend Developer
All design work is carried out to the required standards of accuracy with specific regard to the Quality, Assurance, Design Guides and Practice Notes and appropriate statutory regulations and codes of practice.

Research Experience

• **Semantic Web in Medical and Healthcare**
Every second, modern IoT-based devices generate enormous amounts of data in numerous formats, especially in healthcare institutions where the key relevant data is not readily available. We proposed a Web 3.0 based web application framework for digital healthcare addressing its challenges and solutions. Our aims was to facilitate the creation of a knowledgeable database for sharing medical resources and to provide digital healthcare services using Semantic Web and Blockchain technologies.

• **Absenteeism Cause Detection Among University Students**
Chronic absenteeism among university students might harm an educational institution by reducing literacy rate and merit. It also hampers any student's disciplined in life. This report examines a case of absenteeism among Bangladeshi university students. To analyze and predict absenteeism, machine learning approaches have been used.

Soft Skills

Communication

Critical Thinking

Problem Solving

Languages

English: Advanced High (C1)

Bangla: Distinguished (Native)

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Projects

- CSE499 **Monokothon/Psyche Conversa** **Course: Senior Design**
Tech Stack: Flutter, Flask, NLP, Python, Firebase
Suicidal tendencies in students are increasing rapidly. It is becoming a common issue in Bangladesh. We developed a mobile app that can listen to their burden and helps to reduce the amount of their depression. A student-friendly deep learning based mobile app to chat with them to detect their mental health condition, and improve the condition by applying various CBT Techniques. In addition to cognitive behavioral questionnaires, this app collect social media data, browsing history, daily routine of a student and apply various deep learning techniques to determine his/her mental condition accurately and providing counselling and mental health improving assessments based on the current mental health condition.
- CSE327 **Tutor-Hub** **Course: Software Engineering**
Tech Stack: Django, HTML, CSS, JS, Python, AI
This application is a web-based tutor finder app where tutors and students will be able to find their intended tuition/tutor. The application consists of two main parts, the web application and the backend server. Another help of this system is the capability of note sharing. This app is a spot to collect or transfer necessary documents to the students. The tutor can easily reach his notes to his student
- CSE299 **Stock market predictor** **Course: Software Engineering**
Tech Stack: Python, Machine Learning, Django, REST API
Stock market predictor will help to make a better prediction based on the analysis of provided datasets and reports. Approach: Using Recurrence Neural Networking architecture's LSTM (long short term memory) approach we will train the AI to analyze the datasets of a particular stock market. Our objective is to predict at least 2 months price movements of a stock using the data provided by an organization's reports.

Certification

- **Python for Everybody:** Using python to access data, Capstone: Retrieving, Processing, and Visualizing Data with Python, Using Databases with Python, Python Data Structures. (Coursera, 2020)
- **Mathematics for Machine Learning: Linear Algebra** (Coursera, 2021)
- **Google IT support:** Technical Support Fundamentals, The Bits and Bytes of Computer Networking, Operating Systems and You: Becoming a Power User, System Administration and IT Infrastructure Services, IT Security: Defense against the digital dark arts. (Coursera, 2022)
- **Web Development - Complete Fast Track Course** (Udemy, 2021)
- **Natural Language Processing, Deploy on Cloud(AWS)** (Udemy, 2021)