



Md. Tahidul Islam

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Gender: Male **Date of birth**: 04/10/2001 **Nationality**: Bangladeshi

ABOUT ME

I am a Computer Science and Engineering student at Pabna University of Science and Technology with expertise in machine learning, deep learning, and web development. Skilled in competitive programming, reaching the **Pupil rank on Codeforces**. Experienced in healthcare-focused AI research, including Explainable AI (XAI) and cardiovascular disease detection. Possesses hands-on experience in data preprocessing, feature selection, and model optimization techniques, including advanced hyperparameter tuning with GridSearchCV and forward floating selection. Committed to continuous learning and eager to contribute innovative solutions in the fields of AI, cybersecurity, and quantum machine learning.

EDUCATION AND TRAINING

[02/03/2020 – Current]

B.Sc in Computer Science Engineering

Pabna University of Science and Technology <https://pust.ac.bd/>

City: Pabna | **Country**: Bangladesh | **Level in EQF**: EQF level 6

[06/05/2017 – 05/04/2019]

H.S.C

Tilna Degree College

City: Naogaon | **Country**: Bangladesh | **Field(s) of study**: Science | **Final grade**: 4.75
| **Level in EQF**: EQF level 3

[01/01/2012 – 03/04/2017]

S.S.C

Tilna M.L Highschool

City: Naogaon | **Country**: Bangladesh | **Field(s) of study**: Science | **Final grade**: 4.59
| **Level in EQF**: EQF level 2

PROJECTS

Diabetes Prediction

Developed a machine learning model for diabetes prediction using patient data. The project involved data preprocessing, feature selection, and model training to accurately classify individuals based on risk factors. Utilized techniques like hyperparameter tuning to optimize performance, aiming to provide a reliable tool for early diabetes detection.

Link: <https://github.com/masum200119/Machile-Learning/tree/main/Diabates>

Heart Disease Prediction

Implemented a machine learning model for heart disease prediction using clinical data. The project included data cleaning, feature selection, and model training to assess cardiovascular risk factors. Applied techniques like hyperparameter tuning to enhance prediction accuracy, providing a tool for early diagnosis of heart disease.

Link: <https://github.com/masum200119/Machile-Learning/tree/main/Heart Disease>

Result Prediction

This is a Machine Learning Project for Result Prediction.

Link: <https://github.com/masum200119/Machile-Learning/tree/main/Result>

Gold Price Estimation

A Machine Learning Project.

Link: <https://github.com/masum200119/Machile-Learning/tree/main/Gold Price>

Notebook (Mobile App)

Developed a Notebook Mobile App with Androaid Studio.

Online Book Store (Web Application)

Developed a Book Store with .NET core.

HONOURS AND AWARDS

- [2023] **Runners Up at Intra University Programming Contest by Solver Green. Awarding institution:** Pabna University of Science and Technology
- [2023] **2nd Runners Up at Intra University Programming Contest by Solver Green. Awarding institution:** Pabna University of Science and Technology
- [2023] **17th at Inter University Programming Contest. Awarding institution:** North Western University
- [2024] **2nd at Inter Department Individual Programming Contest. Awarding institution:** Pabna University of Science and Technology

VOLUNTEERING

- [08/05/2022 – Current] **Executive Member at Solver Green** Pabna
Solver Green is an non-profit organization at Pabna University of Science and Technology.
Link: <https://www.linkedin.com/company/solver-green/mycompany/>
- [01/02/2019 – Current] **Member at Sapahar Maun Club** Sapahar, Naogaon
This is a charity organization that helps poor people.
Link: <https://www.facebook.com/sapaharmaaunclub>

MANAGEMENT AND LEADERSHIP SKILLS

President at Kishore Sangha

This is a non profitable organization. I was the Founder of this Organization.

Link: <https://www.facebook.com/profile.php?id=61568643637517>

Joint Secretary at Chachahar Tarun Club

An organization focused on **kheladhula** (sports and physical activities) typically promotes the physical and mental well-being of individuals through various games and sports. It organizes events, training sessions, and tournaments for activities such as football, cricket, and other popular sports. The goal is to foster teamwork, leadership, and a healthy lifestyle while providing opportunities for personal growth and social interaction. It can also engage in community-building activities and initiatives to raise awareness of the importance of fitness and sports in daily life.

Link: <https://www.facebook.com/groups/2811734909084203>

Member at Chachaher Pragati Club

An organization focused on Technological skills and Sports.

Link: <https://www.facebook.com/groups/729998817766616>

Member at CSE Programming Club, PUST.

A club that focused on competitive programming.

Link: <https://www.facebook.com/groups/402634149762278>

CERTIFICATES

International Collegiate Programming Contest - 2022

International Collegiate Programming Contest - 2023

Intra University Programming Contest - 2023

IEEE Programming Contest - 2024

IEEE Idea Contest - 2024

Inter Department Programming Contest - 2024

AI in Auction by Industrial Workshop BD - 2024

Global Nuclear Energy Facts and Myths by ASE Rosatom - 2024

LANGUAGE SKILLS

Mother tongue(s): Bangla

Other language(s):

English

LISTENING B2 READING B1 WRITING C1

SPOKEN PRODUCTION B1 SPOKEN INTERACTION A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

My Digital Skills

Competitive Programming | Machine Learning & AI | Programming & Development | ●
Data Analysis | Web Designing & Web Development | app development | Cybersecurity
knowledge | Problem analysis & Problem Solving

PROBLEM SOLVING AND TECHNOLOGICAL SKILLS

[06/2022 – Current]

Solved more than 1,000 analytical problems.

- Codeforces(700+)
- Leetcode(170+)
- Codechef(100+)
- Atcoder(20+)
- CSES(30+)
- LightOJ(30+)
- Others(20+)

Frontend

- HTML
- CSS
- Bootstrap

Backend

- ASP .NET CORE(BASIC)

Database

- SQL
- MySQL

AI Tools

- Pandas
- Numpy
- Matplotlib
- Tensorflow
- PyTorch
- Scikit-learn
- Keras
- OpenCV
- XGBoost / CatBoost / LightGBM

COMMUNICATION AND INTERPERSONAL SKILLS

Team Leadership

Ability to effectively collaborate with teams, lead initiatives, and engage in academic discussions.

PUBLICATIONS

[2024]

CATBOOST CLASSIFIER-BASED SADHU AND CHOLIT BANGLA CLASSIFICATION

Reference: Upcoming

The **CATBOOST Classifier-based Sadhu and Cholit Bangla Classification** aims to leverage machine learning techniques for classifying different styles of Bangla language, specifically distinguishing between Sadhu (formal) and Cholit (informal) forms. Using the CATBOOST classifier, known for its efficiency in handling categorical data, the project builds a model to accurately categorize Bangla text. This classification can aid in various natural language processing tasks, such as sentiment analysis or language translation, by effectively recognizing the differences in linguistic styles.

HOBBIES AND INTERESTS

Politics

Football

Badminton

Chess

Geopolitics

Cards

Cricket

Global Politics

Carrom

RECOMMENDATIONS

Name: Dr. Md. Abdur Rahim Teacher

Research Supervisor

Phone number: (+880) 1728548300 | **Email:** rahim@pust.ac.bd

Link: https://www.pust.ac.bd/academic/departments/dept_teachers/dept_teachers_profile/100009

Name: Nakib Aman Teacher

Research Supervisor

Phone number: (+880) 1762910933 | **Email:** nakib.cse@pust.ac.bd

Link: https://www.pust.ac.bd/academic/departments/dept_teachers/dept_teachers_profile/100228