



## MD. Tahidul Islam

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### 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

#### B.Sc in Computer Science Engineering

**Pabna University of Science and Technology** [ 2 Mar 2020 – Current ]

City: Pabna | Country: Bangladesh | Website: <https://pust.ac.bd/> | Level in EQF: EQF level 6

#### H.S.C

**Tilna Degree College** [ 6 May 2017 – 5 Apr 2019 ]

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

#### S.S.C

**Tilna M.L Highschool** [ 1 Jan 2012 – 3 Apr 2017 ]

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

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[ 2022 ] Pabna University of Science and Technology

**Runners Up at Intra University Programming Contest.**

[ 2023 ] Pabna University of Science and Technology

**2nd Runners Up at Intra University Programming Contest.**

[ 2023 ] North Western University

**17th at Inter University Programming Contest.**

[ 2024 ] Pabna University of Science and Technology

**2nd at Inter Department Individual Programming Contest.**

## VOLUNTEERING

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[ 8 May 2022 – Current ] Pabna

**Executive Member at Solver Green** Solver Green is an non-profit organization at Pabna University of Science and Technology.

Link: <https://www.linkedin.com/company/solver-green/mycompany/>

[ 1 Feb 2019 – Current ] Sapahar, Naogaon

**Member at Sapahar Maun Club** This is a charity organization that helps poor people.

Link: <https://www.facebook.com/sapaharmaaunclub>

## MANAGEMENT AND LEADERSHIP SKILLS

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**President at Kishore Sangha** This is a non profitable organization. I was the Founder of this Organization.

**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 Chachahar Pragati Club** An organization focused on Technological skills and Sports.

**Member at CSE Programming Club, PUST.** A club that focused on competitive programming.

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

## CERTIFICATES

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**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

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**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

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

## COMMUNICATION AND INTERPERSONAL SKILLS

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

## HOBBIES AND INTERESTS

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Cricket

Football

Badminton

Cards

Chess

Carrom

Politics

Geopolitics

Global Politics

## PUBLICATIONS

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[2024]

**CATBOOST CLASSIFIER-BASED SADHU AND CHOLIT BANGLA CLASSIFICATION** 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.

Upcoming

## RECOMMENDATIONS

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**Name: Nakib Aman** | Teacher

Research Supervisor

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