

# Ahad Bin Islam Shoeb

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## ● ABOUT ME

Researcher and specialist in AI, Cyber Security, Vision, and data engineering with an excellent degree in computer science from the University of Dhaka. As a Machine Learning Engineer, I've worked at several world-class AI laboratories and companies, focusing on smart, data-driven solutions.

## ● RESEARCH AND PUBLICATIONS

### DECPA-FL: Dynamic Ensemble Clustering for Poison-Aware Federated Learning under Adversarial Conditions

A Federated Learning system to detect Intrusions from heterogeneous adversarial conditions. (Accepted at IEEE CCNC, Las Vegas, USA)

**Link** [https://www.researchgate.net/publication/398131181\\_DECPA-FL\\_Dynamic\\_Elsement\\_Clustering\\_for\\_Poison-Aware\\_Federated\\_Learning\\_under\\_Adversarial\\_Conditions](https://www.researchgate.net/publication/398131181_DECPA-FL_Dynamic_Elsement_Clustering_for_Poison-Aware_Federated_Learning_under_Adversarial_Conditions)

### STPS-NET: A Federated Spatio-Temporal Plant Specific Network for Yield Prediction and Recommendation in Urban Agriculture

BSc Thesis: Author: Ahad Bin Islam Shoeb. Afser Adil Olin.

A Federated Learning based Prediction and Recommendation for Implementing AI in Rooftop Gardens of Dhaka City

**Link** [https://drive.google.com/file/d/1ww\\_WE7gJY5klatYOmK4C0UxwG5dBp-V/view?usp=sharing](https://drive.google.com/file/d/1ww_WE7gJY5klatYOmK4C0UxwG5dBp-V/view?usp=sharing)

### A Novel LOTL State Sponsored Attack Detection architecture for multi stage and obfuscated attacks.

Research Completed. Going to Submit at USENIX 2026 under the supervision of Dr. Kamrul Hasan (University of Tennessee, USA)

## ● WORK EXPERIENCE

### TURING – CALIFORNIA, UNITED STATES

**Business or Sector** Information and communication | **Department** Artificial Intelligence (External Team) |

**Address** Palo Alto, California, California, United States | **Email** [people@turing.com](mailto:people@turing.com) | **Website** <https://www.turing.com/>

### MACHINE LEARNING ENGINEER – 24/10/2024 – CURRENT

- I made a significant contribution to the **Google DeepMind** project that sought to optimize **Gemini**.
- Fine-tuned an AI model using advanced ML and Data Science methods, including **SFT**, **RLHF**, and **RLEF**.
- Contributed to the improvement of AI model evaluation, data labeling, and reinforcement learning workflows for performance upgrades.
- Research-based Machine Learning model implementation from **SOTA** models.

### INTERNATIONAL CRIMES TRIBUNAL (SUPREME COURT OF BANGLADESH) – DHAKA, BANGLADESH

**Business or Sector** Information and communication | **Department** Information Technology |

**Website** <https://ictbdinvestigation.gov.bd/>

### WEB DEVELOPER AND IT CONSULTANT (ONSITE+CONTRACTUAL) – 01/10/2024 – 30/06/2025

- Consulted **Prosecutors**, maintaining their website.
- Implemented **RAG** (Retrieval-Augmented Generation) systems for legal document analysis and search.
- **Architected** and **deployed** secure AI applications with multi-level access control using **Django** and **AWS**.
- Consulted on **cybersecurity** measurement and **Social Engineering**.

## MACHINE LEARNING ENGINEER – 01/01/2023 – 10/09/2023

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- Implemented **computer vision** algorithms for food classification, achieving **95%** accuracy in nutrient tracking for maternal health applications
- Developed **explainable ML** models for cardiovascular risk prediction with **SHAP** and **LIME** integration
- Architected and deployed **LLM**-powered solutions for structured data extraction from unstructured clinical documents
- Fine-tuned transformer models (**DistilBERT**, **RoBERTa**) for medical text classification with **94%** F1-score

## EDUCATION AND TRAINING

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01/01/2020 – 30/12/2023 Dhaka, Bangladesh

### BSC (BACHELOR'S OF SCIENCE) AT COMPUTER SCIENCE AND ENGINEERING University of Dhaka

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**Website** <https://du.ac.bd/> | **Field of study** Computer Science and Engineering | **Final grade** 3.40 / 4.00 |

**Thesis** STPS-NET: A Federated Spatio-Temporal Plant Specific Network for Yield Prediction and Recommendation in Urban Agriculture

01/09/2025 – CURRENT Dhaka, Bangladesh

### MSC ( MASTER'S OF SCIENCE) AT COMPUTER SCIENCE AND ENGINEERING University of Dhaka

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**Website** <https://du.ac.bd/> | **Field of study** Computer Science and Engineering

## SKILLS

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machine learning | data science | cyber security | Applied machine learning | data engineering | programming, software engineering, software development

## PROJECTS

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01/10/2025 – CURRENT

### SPADE-AI : AI-driven Hyperspectral Soil Analysis Platform

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Working as a Research Assistant in the University of Dhaka. This project is funded by ADB (Asian Development Bank). Working to integrate Hyperspectral Image processing in Distributed Data conditions for measuring soil properties of crop fields. (Collaboration with Bangladesh Agricultural Research Council).

Ref: Dr. Mamun Or Rashid

### Department of CSE, University of Dhaka, Masters' Website Development

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Designed and developed a comprehensive admission portal serving thousands of graduate students Web Application

**Link** <https://pmics.cse.du.ac.bd/>

### Eye Blink Detection application integrating ML with Software system.

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Developed a Backend with Django and a Frontend system to measure attentiveness of students. Got 95% Precision in predicting eye blink in several conditions and measured attentiveness of students.

**Link** <https://github.com/ShoebAhad/Eye-Blink-Detection-Application>

## SOCIAL AND POLITICAL ACTIVITIES

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Dhaka, Bangladesh

### Joint Convener of Bangladesh Democratic Student's Council , Central DUCSU Candidate ( Secretary, Science and Technology, University of Dhaka)

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Took part in the **38th DUCSU (Dhaka University Central Students' union)**, a highly esteemed student platform in Bangladesh, where I served as the Secretary for Science and Technology. I received **4273** votes, the **highest** from my Anti-Discrimination Panel and the second highest overall among the 12 candidates.

Joined the World Youth Leadership Conference as a Panelist to talk on AI and IT Policy of Bangladesh

**Link** [vote.ahadbinislam.com](http://vote.ahadbinislam.com)

01/01/2023 – CURRENT Dhaka, Bangladesh

## **Founder and CEO, Academic Affiliation- IT For All**

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Trained more than **5000+** university students, including those from the USA and UK on AI, Data Science, AI tools, and IT policy.

Inclusive AI and IT training to the remote corner of Bangladesh and to women.

Took several sessions on Research, AI, Data Science, and Higher Studies.

**Link** <https://it-for-all.com>

## **HONOURS AND AWARDS**

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### **Honorable Mention at DUCSU Math Olympiad, 2020**

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Was awarded an Honorable mentions for becoming 4th among 1000+ candidates at DUCSU Math Olympiad-2020.

### **Honorable Mention at Eastern University National Math Olympiad, 2019 – Eastern university, Bangladesh**

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Got honorable mention at Eastern University National Math Olympiad, 2019

### **PSC, JSC, SSC and HSC scholarship ( Ministry of Education, Bangladesh)**

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Was awarded a talent pool scholarship in PSC, JSC, and SSC, the largest Public exams in Bangladesh. Top 1% among 1.5 million students.

### **National Chess Olympiad**

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Was awarded Pawn of the tournament (5th- 8th in Bangladesh)

## **CERTIFICATIONS**

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### **Python for Data Science, AI & Development**

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**25 hours (approximately): Grade Achieved: 92.50% by DeepLearning.Ai**

**Link** <https://coursera.org/share/a70cf2f1ff0e100e7d8b09d7d967ec95>

### **Generative AI with Large Language Models**

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**16 hours (approximately): Grade Achieved: 91% by DeepLearning.Ai**

**Link** <https://coursera.org/share/3896bbf97083abf03248cdd1ddd28ec5>

### **Address Business Issues with Data Science**

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**6 hours (approximately) : Grade Achieved: 96.25% by CertNexus**

**Link** <https://coursera.org/share/0e61457122bb951a9b40dfc8a70d0504>

### **What is Data Science ?**

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**11 hours (approximately): Grade Achieved: 87.66% by IBM**

**Link** <https://coursera.org/share/ece46708eb76b14f7bf2fecb82b18413>