



Md Shakib Hasan (韩文韬)

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ABOUT ME

A master's student in **Computer Technology** at **Central China Normal University**, specializing in **Artificial Intelligence in Education (AIED)**. Current research focuses on the intersection of technical rigor and pedagogical innovation, specifically developing diagnostic frameworks and interpretable AI systems to improve learning outcomes. With a strong background in electronic information engineering and embedded systems, aims to advance AI, autonomous systems, and smart educational infrastructure.

WORK EXPERIENCE

EDUCATIONAL RESEARCHER – AIEDTech Research Forum (Personal Research Initiative) – 10/03/2023 – Current – WUHAN, HUBEI, CHINA

- Applied advanced statistical models in data analysis, yielded insightful patterns and trends.
- Pioneered new data visualization techniques for impactful presentation of results.
- Designed comprehensive surveys and questionnaires for effective primary data collection.
- Published 2 Q1 Journal papers as first author and 1 Conference paper.

RESEARCH AND DEVELOPMENT (INTERN) – NANCHONG CHUANGNIAN 3D TECHNOLOGY CO., LTD. – 01/06/2024 – 31/12/2024 – NANCHONG, SICHUAN

- Contributed to the research and development of 3D technology solutions.
- Assisted in system prototyping and performance testing to ensure product reliability.
- Collaborated with engineering teams to troubleshoot technical challenges and document development processes.

BRAND PROMOTER (Virtual/Weekly) – BESTYBD – 15/10/2020 – 20/01/2025 – DHAKA, BANGLADESH

- Managed diverse social media content strategies and performed detailed market research to inform marketing decisions.
- Established a robust client base through excellent customer service skills.
- Coordinated logistics for promotional events-ensured smooth operations.
- Increased 25% sale as per 2022 company report.

CAMPUS AMBASSADOR – MULTIPLE ORGANIZATIONS (BCPS, SILSWA, SHUHASH) – 05/01/2019 – 10/01/2021 – DHAKA, BANGLADESH

- Organized workshops and events that facilitated skill development in photography, encouraging participation and collaboration within student community.
- Provided guided tours around the campus for visitors adding a personalized touch to their visit.
- Organized orientation events providing new students an insightful introduction into campus life.
- Served as a reliable point of contact between students and staff bridging communication gaps effectively.

SKILLS

Artificial intelligence and model interpretability (XAI) | Embedded systems and microcontroller programming | Software tools and simulation | Digital marketing and content creation | Online communications and research | Influencer networking | Brand analytics | Technical product knowledge | Python | C/C++ | MATLAB | R Language | Proteus | Multisim | HTML/ CSS/JavaScript

● **EDUCATION AND TRAINING**

10/09/2025 – CURRENT Wuhan, Hubei, China
MASTER OF SCIENCE Central China Normal University (华中师范大学)

Website www.ccnu.edu.cn | **Field of study** Computer Technology

15/09/2021 – 15/06/2025 Nanchong, Sichuan, China
BACHELOR OF SCIENCE China West Normal University (西华师范大学)

- Sichuan Provincial Government Scholarship (2021-2025)
- Best Research Student Award (2024)
- Best Graduate (Batch 2021)

Website www.cwnu.edu.cn | **Field of study** Electronic Information Engineering | **Final grade** 87.2% | **GPA:** 3.63

Thesis Optimizing Traffic Sign Recognition Systems for Autonomous Vehicles Using Deep Learning

● **PUBLICATIONS**

2026
[**Harnessing blockchain for emotion identification: A novel edge-compatible privacy-preserving framework**](#)

Hasan, M.S., Ahmed, A., Jabe, M.M.N. et al. Harnessing blockchain for emotion identification: A novel edge-compatible privacy-preserving framework. J. King Saud Univ. Comput. Inf. Sci. (2026). <https://doi.org/10.1007/s44443-026-00560-6>

Journal Name: Journal of King Saud University Computer Information Sciences | **Publisher:** Springer Nature

2025
[**The Adaptive Lab Mentor \(ALM\): An AI-Driven IoT Framework for Real-Time Personalized Guidance in Hands-On Engineering Education**](#)

Hasan, M. S., Ahmed, A., Rasool, N., Jabe, M. M. N., Zeng, X., & Ali Pirzado, F. (2025). The Adaptive Lab Mentor (ALM): An AI-Driven IoT Framework for Real-Time Personalized Guidance in Hands-On Engineering Education. Sensors, 25(24), 7688.

Journal Name: Sensors | **Publisher:** MDPI

2025
[**Optimizing Traffic Sign Recognition for Autonomous Vehicles Using SSD-MobileNet_v2**](#)

Mosaddeka, J. M., Hasan, M. S., & Awais, A. (2025, June). Optimizing Traffic Sign Recognition for Autonomous Vehicles Using SSD-MobileNet_v2. In 2025 10th ISCTT Conference (pp. 154-158). IEEE.

Journal Name: 10th International Conference on Information Science, Computer Technology and Transportation | **Publisher:** IEEE

2026
[**A Century of Educational Technology from Standardization to Co-Creation and the Epistemological Rupture of Artificial Intelligence**](#)

Hasan, M. S., Jabe, M. M. N., Bandaso, T. D., Iftikhar, A., Rathore, S., & Akther, M. S. (2026). A Century of Educational Technology from Standardization to Co-Creation and the Epistemological Rupture of Artificial Intelligence. (Accepted for Pub)

Journal Name: Discover Education | **Publisher:** Springer Nature

2026
[**AI Governance in Education: A Comparative Policy Analysis of China, Singapore, and the European Union**](#)

Hasan, M. S., & Jabe, M. M. N. (2026). AI Governance in Education: A Comparative Policy Analysis of China, Singapore, and the European Union. (Preprint, Under Review)

Journal Name: Higher Education Policy | **Publisher:** Springer Nature

● **PROJECTS**

10/10/2025 – CURRENT
XAI Based Dropout Prediction

- Predicting early student dropout rates while ensuring fairness and transparency, which closes the gaps between XAI, ED AI, and Trustworthy AI

Link <https://dropoutra.streamlit.app/>

- A Diagnostic Framework for Zero-Shot Skill Identification in Mathematics Education using Interpretable Structural Primitives

- Exploring 3D vision through sketch-to-voxel generation

The NSDT Architecture

- Neuro-Symbolic Didactic Transposition (NSDT) framework, mapping expert knowledge to pedagogical instruction

● LANGUAGE SKILLS

Mother tongue(s): **BENGALI**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
CHINESE	B2	B1	B1	B2	B1

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

● CERTIFICATIONS and MEMBERSHIP

Chinese Testing International Co., Ltd., 01/06/2026
汉语水平考试 (**HSK Level 4**)

Certificate NO: H42605051719

Mode of learning: Hybrid

IEEE, 15/04/2026
IEEE Student Member

Wuhan Section (101657660)

Mode of learning: Research-Lab based

● HONOURS AND AWARDS

20/09/2021
Sichuan Provincial Government Scholarship – China West Normal University

The **Sichuan Provincial Government Scholarship** is an initiative established by the local government to attract outstanding international students to pursue degrees and conduct research at universities across Sichuan Province.

15/09/2025
Chinese Government Scholarship – Ministry of Education (P.R. China)

The **Chinese Government Scholarship (CSC Scholarship)** is a prestigious, fully or partially funded program established by China's Ministry of Education to support international students, teachers, and scholars pursuing higher education and research in China.

● RECOMMENDATIONS

1. Prof. Feng Zhengyong (China West Normal University); E-mail: zhfeng@cwnu.edu.cn; Phone: (+86) 18080330433
2. Prof. Yunxiu Wang (China West Normal University); E-mail: 109wyx@163.com; Phone: (+86) 13698288256
3. A. Prof. Dezhi Gou (China West Normal University); E-mail: goudezhi@cwnu.edu.cn; Phone: (+86) 18328315127