











MD TALAT MAHMUD TOMAL

Aspiring Masters Student

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PROFILE

Motivated Software Engineering student with practical expertise in deep learning-based **medical image analysis, lightweight model development, and AI application**. I am driven to create AI-powered solutions that deliver tangible, user-friendly, and globally relevant impact.

EDUCATION

- **Yangzhou University, Yangzhou, Jiangsu, China** Sep 2022 - Jul 2026
Bachelor of Science in Software Engineering GPA 3.73 (TOP 3)
Courses: Assembly Language, Software Data Analysis, Database, Software Architecture and design, Web App Development, OOP, Data Structure and Algorithm, Networking, Computer Hardware
- **Mirzapur Cadet College, Tangail, Bangladesh** 2018 - 2020
Higher Secondary School Certificate Examination (*Science*) GPA: 5.0/5.0
- **Mirzapur Cadet College, Tangail, Bangladesh** 2016 - 2018
Secondary School Certificate Examination (*Science*) GPA: 5.0/5.0

TECHNICAL SKILLS

- **Programming/Languages:** (*Proficient*) Python, SQL, C, C++, Assembly Language;
(*Familiar*) Java, C#, HTML, CSS, UML
- **Libraries and Tools:** NumPy, Pandas, Pytorch, Matplotlib, LangChain, TensorFlow, OpenCV, Tableau, PowerBI (Data Visualization), Excel, Git, Canva (Design & Writing)

RESEARCH CONTRIBUTIONS

- *First-author of the paper "Distill-FusionNet: Lightweight Lung Cancer Detection via Knowledge Distillation and Dataset Fusion", submitted to Knowledge-Based Systems (under peer review).*
- *Developed CNN-based lightweight medical imaging classifiers for Pneumonia Disease, integrating Ensemble and transfer learning technique. Currently the manuscript is under preparation. (Final Manuscript ready for submission)*

PROFESSIONAL ENGAGEMENTS

- **Bangladesh-China Youth Student Association (BCYSA)** May 2024- May2025
Campus Ambassador
-Representing Bangladeshi community in Yangzhou University and spreading campus news and updates through social platforms of the association.

LANGUAGE SKILL

- **HSK 3 -**

Score (275/300)

- *Medium of Instruction in Bachelor Degree is English*

ACHIEVEMENTS AND AWARDS

- Semi-finalist of the “7th QingFeng Cup of the University of Science and Technology of China 2025” 2025
- Core member of Overall Best Team Award winning team at “5th Science and Technology Innovation Competition 2024” of *Jiangsu province*. 2024
- Received a Certificate of Completion from the **Tsinghua University** Global Program on Innovating Education and Entrepreneurship (**IEDE**) after presenting a research project on Knowledge Graphs. 2024

PROJECTS

- **EcoHusk Green Project — Sustainable Biomass Energy System**

1. Designed and implemented a comprehensive closed-loop green energy ecosystem utilizing rice husk biomass.
2. This system effectively converts rice husk waste into multiple high-value outputs: electricity, activated carbon, nitrogen gas, purified water, and RHA bricks.
3. The project was recognized with the Best Team Award at the 5th Science and Technology Innovation Competition 2024, held by Yangzhou University in Jiangsu Province.

REFERENCES

- **Caikou Chen**

*Professor, Associate Dean (College of Information Engineering)
College of Information Engineering, Yangzhou University, Yangzhou
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- **Dr. Mahdy Rahman Chowdhury**

*Associate Professor, Department of ECE
North South University, Dhaka, Bangladesh
Additional Role: Founder & Chief Researcher, Mahdy Research Academy
Education: PhD, Department of ECE, National University of Singapore
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