



# MD TALAT MAHMUD TOMAL

Aspiring Masters Student

talatmcc talatmcc@outlook.com <https://talatmcc.github.io/portfolio-tomal/>

Bangladeshi 23 years Yangzhou, China +8619351908130 w\_tomal

## PROFILE

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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

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- **Yangzhou University, Yangzhou, Jiangsu, China**

Bachelor of Science in Software Engineering

Sep 2022 - Jul 2026

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**

Higher Secondary School Certificate Examination (Science)

2018 - 2020

GPA: 5.0/5.0

- **Mirzapur Cadet College, Tangail, Bangladesh**

Secondary School Certificate Examination (Science)

2016 - 2018

GPA: 5.0/5.0

## TECHNICAL SKILLS

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- **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

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- 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

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- **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

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- **HSK 3 -**

**Score (275/300)**

- *Medium of Instruction in Bachelor Degree is English*

## ACHIEVEMENTS AND AWARDS

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- Semi-finalist of the “**7<sup>th</sup> 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

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- **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

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- **Caikou Chen**

*Professor, Associate Dean (College of Information Engineering)  
College of Information Engineering, Yangzhou University, Yangzhou  
Email: yzeck@126.com*

- **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  
Email: mahdybuet@gmail.com, mahdy.chowdhury@northsouth.edu*



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w\_tomal

## 个人简介 PROFILE

具有深度学习医学图像分析、轻量化模型开发和人工智能应用实践经验的软件工程专业学生。致力于创造可落地、用户友好且具有全球影响力的 AI 解决方案。

## 教育背景 EDUCATION

### ● 扬州大学，江苏省扬州市，中国

(2022年9月 – 2026年7月)

软件工程学士绩点 *GPA: 3.73 (专业 TOP 3)*

相关课程：汇编语言、软件数据分析、数据库、软件体系结构与设计、Web 应用开发、面向对象程序设计、数据结构与算法、计算机网络、计算机硬件

### ● Mirzapur Cadet College, Tangail, 孟加拉国

2018 - 2020

高中毕业考试（理科）

GPA: 5.0/5.0

### ● Mirzapur Cadet College, Tangail, 孟加拉国

2016 - 2018

初中毕业考试（理科）

GPA: 5.0/5.0

## 技术技能 SKILLS

- 编程语言：（熟练）Python、SQL、C、C++、汇编语言（熟悉）Java、C#、HTML、CSS、UML
- 库与工具：NumPy、Pandas、PyTorch、Matplotlib、LangChain、TensorFlow、OpenCV、Tableau、PowerBI（数据可视化）、Excel、Git、Canva（设计与写作）

## 科研成果 RESEARCH CONTRIBUTIONS

- “Distill-FusionNet: Lightweight Lung Cancer Detection via Knowledge Distillation and Dataset Fusion” 已提交至 Knowledge-Based Systems，目前在同行评审中。
- 开发了基于 CNN 的轻量级肺炎检测分类器，融合集成学习与迁移学习技术。  
论文最终稿已完成，准备投稿。

## P社会工作 ROFESSIONAL ENGAGEMENTS

### ● 孟加拉国–中国青年学生协会（BCYSA） — 校园大使

(2024年5月 – 2025年5月)

- 代表扬州大学的孟加拉国学生群体
- 通过协会平台发布校园资讯与活动更新

## 语言能力 LANGUAGE SKILL

- HSK 3 — 成绩：275/300

- 本科授课语言：英语

## 奖励与荣誉 ACHIEVEMENTS AND AWARDS

- 入围 中国科学技术大学第七届“清风杯”2025 半决赛 (2025)
- 核心成员，获得 江苏省 2024 年第五届科技创新竞赛最佳团队奖 (2024)
- 完成并获得 清华大学 IEDE 全球创新教育与创业课程结业证书  
— 就“知识图谱”方向提交创新研究项目 (2024)

## 项目经历 PROJECTS

- EcoHusk 绿色项目 — 可持续生物质能源系统

1. 设计并实现了一个基于稻壳的闭环绿色能源生态系统。
2. 系统可将稻壳废料转化为多种高价值产物：电力、活性炭、氮气、净化水、RHA 砖。
3. 该项目获得 2024 年江苏省扬州大学第五届科技创新竞赛“最佳团队奖”。

## 推荐人 REFERENCES

- 陈才寇  
教授、副院长（信息工程学院）  
扬州大学信息工程学院，扬州  
邮箱：yzcck@126.com

- *Mahdy Rahman Chowdhury* 博士  
副教授（ECE 系）  
孟加拉国北南大学，达卡  
兼任 *Mahdy Research Academy* 创始人及首席研究员  
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