

# MD WAJIH TOUSIF RAAFI

+880-1676-432020 | [mdwajih tousif511@gmail.com](mailto:mdwajih tousif511@gmail.com) |


[in](#) /MD Wajih Tousif Raafi | [G](#) /raafi074 | My-Portfolio

Chittagong, Bangladesh

## OBJECTIVE

A recent graduate in Computer Science & Engineering from Chittagong University of Engineering & Technology, equipped with a solid foundation in computational theory, programming, and problem-solving. Extensive coursework and project experience have honed technical expertise, analytical thinking, and the ability to tackle complex challenges with precision. Known for reliability, adaptability and a strong work ethic, with a proven ability to thrive both independently and in collaborative settings. Driven by a commitment to excellence and continuous learning, eager to contribute to innovative solutions in dynamic professional environments.

## EXPERIENCE

- Diligite**  May 2023 - November 2023  
*Intern* Chittagong, Bangladesh
  - Implemented Doctor Appointment booking project
  - Developed a responsive web interface for a doctor appointment booking platform using HTML, Tailwind CSS, and React, improving user engagement by 20%

## EDUCATION

- Chittagong University of Engineering and Technology** February 2019 - October 2024  
*Degree: Bachelor of Computer Science and Engineering* Chittagong, Bangladesh
  - GPA: 3.04/4.00
- Govt City College, Chittagong** July 2016-May 2018  
*Degree: Higher Secondary Certificate, Science* Chittagong, Bangladesh
  - Grade: 4.75/5.00
- Chittagong Government High School, Chittagong** Jan 2011- Feb 2016  
*Degree: Secondary School Certificate* Chittagong, Bangladesh
  - GPA: 5.00/5.00

## THESIS AND PUBLICATIONS

- Detecting Suicidal Intentions through Analysis of Social Media Content** April 2023 - February 2025  
*Research and conference paper published in IEEE on Natural Language Processing*
  - Co-authored and presented research on bilingual suicide intent detection at the 2025 International Conference on Electrical, Computer, and Communication Engineering (ECCE).
  - Developed and evaluated machine learning, deep learning, and transformer-based models (including MultilingualBERT) on a curated Bengali-English social media dataset.
  - Achieved an F1-score of 0.90 with MultilingualBERT, demonstrating effective multilingual NLP for mental health risk detection in low-resource settings.
- Face Morphing Attack Detection Using Deep Learning and Residual Noise Analysis** April 2023 - September 2024  
*Research on Computer Vision*
  - Enhanced biometric system security by designing robust and scalable morphing artifact detection methods for high-stakes applications like border control and identity verification.
  - Developed and evaluated five deep learning models (UNetXception, UNetResNet18/50, MobileNetV2, DenseNet121) for face morphing attack detection using residual noise features.
  - Achieved state-of-the-art performance with UNetXception model, reaching a BPCER of 0.0044 and EER of 0.0031 on the SMDD dataset.

## PROJECTS

- Donation Website Management** April 2022 - August 2022  
*Tools: [html,css,bootstrap,php,mysql,javascript]*
  - Website's idea based on helping the needy ones by raising funds.
- Question Bank Website** October 2022  
*Tools: [React Js, Javascript, Html, CSS]*
  - Developed this demo website for the students of University to track the previous years' questions

## SKILLS

---

- **Programming Languages:** Python, SQL, C,C++, C#, Matlab
- **Library:** NumPy, pandas, Scipy, scikit-learn, TensorFlow, Keras, NLTK, Matplotlib, Seaborn PyTorch
- **Modeling and Simulation:** EnergyPlus, OpenStudio, AutoBEM
- **Software Tools:** Anaconda, Kaggle, Jupyter Notebook, Git, Shell, RobotStudio, Unity, Latex, Microsoft Office
- **DBMS:** MySQL, MariaDB, phpMyAdmin

## ADDITIONAL INFORMATION

---

**Languages:** English (Proficiency level Test : IELTS - Overall band 7(Listening- 7.5, Reading- 8, Speaking- 7, Writing- 6 )

**Interests:** Natural Language Processing, Data Science, Data Manipulation, Machine Learning , Deep Learning, Computer Vision, Software Development

## EXTRA CURRICULARS

---

- **Cuet Computer Club: General Secretary** *July 2023- July 2024*  
*Chittagong University of Engineering & Technology*
  - Managing and coordinating the affairs of the organization.
  - Organize various events and make communication with the community to be involved.
- **Model United Nations: General Member** *April 2019- July 2024*  
*Chittagong University of Engineering & Technology*
  - Participated in various inter-departmental MUN sessions .
  - Honored with a Special Mention award for Best Delegate at the International Islamic University MUN program.
- **Andromedann Space & Robotics Research Organization: Instructor** *Jan 2022- July 2024*  
*Chittagong University of Engineering & Technology*
  - Python Classes taken frequently and taught a lot of things to freshers.
  - Preside at the meetings of the Executive Committee and the general meetings of the organization.

## REFERENCES

---

1. **Mir Md. Saki Kowsar**  
Assistant Professor, Department of CSE,  
CUET  
Email: sakikowsar@cuet.ac.bd  
*Relationship: [Thesis Supervisor]*