

MD AZIZUL HOQUE

[Google Scholar](#) | [Web-Profile](#) | [GitHub](#)

CONTACT INFO



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Sydney, Australia.



[LinkedIn Profile](#)

SKILLS AT A GLANCE

- **Programming:** Python, C, C++
- **AI/ML:** TensorFlow, PyTorch, Scikit-learn
- **Data & Visualization:** NumPy, Pandas, Matplotlib, Seaborn
- **NLP & CV:** SpaCy, Hugging Face, NLTK, OpenCV, Keras
- **Databases:** MySQL, Oracle, MongoDB

OTHER TOOLS

- Anaconda
- Jupyter
- LaTeX

LANGUAGE PROFICIENCY

- Bangla (Native)
- English (Proficient)

PROFILE SUMMARY

Motivated graduate research student and self-driven researcher seeking a fully funded Master of Research opportunity to contribute to cutting-edge advancements in Machine Learning and Artificial Intelligence. Passionate about Natural Language Processing (NLP), factuality evaluation, and trustworthy AI, with hands-on experience in tokenization, LLM alignment, and applied data mining to develop scalable and reliable AI solutions.

EDUCATIONAL QUALIFICATIONS



Graduate Diploma of Research

Feb 2025 – Dec 2025

Macquarie University, Australia

WAM: 82.75%



Bachelor of IT (Major-AI)

Jan 2022 – Dec 2024

Macquarie University, Australia

WAM: 70.45%

WORK EXPERIENCE



Research Assistant, April 2024 – Current

NLP Lab (School of Computing), Macquarie University



Research Intern, April 2025 – Present

[DADO](#), Bangladesh



Team Lead, July 2024 – Dec 2024

[WebSchool](#), NSW, Australia

RESEARCH PUBLICATIONS

[1] [A CNN-Based Framework for Geometric Alignment of Historical and Satellite Imagery](#) [Accepted in **IEEE Access (Q1)**, 2025]

[2] [MAGIC-Enhanced Keyword Prompting for Zero Shot Audio Captioning with CLIP Models](#) [Accepted in WISE2025]

[3] How Far Can Current Tokenizers Go in Bangla? A Benchmark and a Morphology Aware Solution [Submitted in ACL ARR 2025 JULY cycle]

[4] The Right Tokens for the Right Languages? Evaluating Tokenization Algorithms For Non-Latin & Low-Resource Languages [Submitted in ACL ARR 2025 JULY cycle]

[5] Confident Hallucinations: Extending Factuality Evaluation with Calibration and Entailment Tracing for Bangla LLMs (Ongoing)

PROJECTS

Data Science Portfolio

Portfolio 1 [Link](#) | Portfolio 2 [Link](#) | Portfolio 3 [Link](#) | Portfolio 4 [Link](#)

Image Classification [Intel Image Dataset] [Project Link](#)

Developed a multi-class image classification system using the Intel Image Classification dataset, focusing on data exploration, custom CNN architectures, hyperparameter tuning, and transfer learning with MobileNet. The project showcases comparative evaluation to identify the most effective model.

Credit Risk Classification [Project Link](#)

Developed a credit risk classification system using Logistic Regression, KNN, Random Forest Classifier, and Multi-Layer Perceptron (MLP) to predict loan default.

TEST SCORES

PTE: Overall- 62

Listening-68, Writing-66, Speaking-66, Reading-56

PROFESSIONAL AFFILIATIONS

1. Students Member, IEEE
Jan 2022 – Current
2. Student Member, ACS
Jan 2024 - Current

VOLUNTARY WORKS

1. Social Work Volunteer, [DADO](#)
Activity: Jan 2022- Current

REFERENCES