Subhey Sadi Rahman

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Interests

• Computer Vision • Natural Language Processing • Machine Translation • Medical Imaging and Healthcare AI

Education

Bachelor of Science in Computer Science and Engineering **June 2021 - July 2025**
United International University *CGPA: 3.8/4 (Magna Cum Laude)*

Certifications & Languages

IELTS Academic (British Council) **Feb 2026**
TRF Number: *25BD518983RAHS001A* ***Overall Band:*** *8.0 (CEFR C1) (L: 8.0, R: 9.0, W: 7.0, S: 7.0)*

Experience

Graduate Researcher **January 2024 – Present**
Applied Artificial Intelligence & Intelligent Systems Laboratory *Charles Darwin University, Australia*
- Conducted research on medical imaging datasets to explore applications of deep learning in diagnostic tasks.
- Preprocessed and annotated medical images (e.g., ultrasound, MRI) to build high-quality training datasets.

Research Assistant **May 2025 – February 2026**
Institute for Advanced Research (IAR) *United International University, Dhaka*
- Investigated pulmonary and cardiovascular disease pathologies through advanced Computer Vision techniques.

Undergraduate Teaching Assistant **February 2024 – July 2025**
United International University *Dhaka*
- Developed and curated instructional materials, including study guides and exam papers.
- Conducted thorough evaluation of assignments and examinations.
- Provided academic counseling and mentorship to students.

Grader **September 2023 – January 2024**
United International University *Dhaka*
- Evaluated and graded student assignments and class tests to assess academic performance.
- Collaborated with faculty to compile and prepare grade sheets for accurate record-keeping.

Research Works

Ready to Translate, Not to Represent? Bias and Performance Gaps in Multilingual LLMs Across Language Families and Domains **Link**
Findings of the Association for Computational Linguistics: ACL 2026, Conference Rank: ***A**** *2026*
- Evaluated translation quality and fairness for 14 leading LLMs across 24 language pairs via a unified benchmark.

From language to action: a review of large language models as autonomous agents and tool users **Link**
Artificial Intelligence Review (Springer), Rank: ***Q1****, Impact Factor:* ***18.8*** *2026*
- Comprehensive analysis of LLMs as decision-making agents across A* conferences and Q1 journals.

Hallucination to truth: a review of fact-checking and factuality evaluation in large language models **Link**
Artificial Intelligence Review (Springer), Rank: ***Q1****, Impact Factor:* ***18.8*** *2026*
- Systematic review of evaluation metrics and mitigation techniques for LLM-based fact-checking systems.

Quantitative Measurement of Parkinson Disease Progression Using DaTscan Radiomics and Clinical Features With a Machine Learning–Based Approach **Link**
International Journal of Intelligent Systems (Wiley), Rank: ***Q1****, Impact Factor:* ***3.7*** *2026*
- Built a radiomics–clinical dataset and applied feature selection to model PD progression.

DPMT-Net: a dual-prompt attention multi-task 3D network for joint nodule segmentation and malignancy prediction in lung CT scans **Link**
Complex & Intelligent Systems (Springer), Rank: ***Q1****, Impact Factor:* ***4.6*** *2026*
- Developed DPMT-Net, a dual-prompt multi-task 3D framework for simultaneous lung nodule segmentation, malignancy classification, and anatomical localization.

Meaning Over Morphology: A Multi-Metric Benchmark of LLMs for Bangla Dialect Translation **Link**
DialRes Workshop, Language Resources and Evaluation Conference: LREC 2026, Conference Rank: ***B*** *2026*
- Benchmarked 8 LLMs across 15 Bangla dialects using lexical and semantic metrics for low-resource translation.

Technical Skills

Programming & Scripting: Python, Java, JavaScript, C/C++, PHP
Data Annotation & Labeling Tools: Roboflow, 3D Slicer (Slicer3D)
Computer Vision & ML Libraries: OpenCV, PyTorch, Scikit-learn, Hugging Face
Data Handling & Visualization: Jupyter Notebook, Pandas, NumPy
Databases: MySQL, MongoDB
Development Tools: Docker, Git, Unix/Linux, Visual Studio, JetBrains Suite (IntelliJ IDEA, PyCharm, WebStorm, DataGrip), Figma