

Muhtasim Munif Fahim

Rajshahi, Bangladesh | fahim.stat.ru@gmail.com | fahim.bd
Google Scholar | ORCID: 0009-0007-5008-2883 | GitHub | LinkedIn

Research Interests

Artificial intelligence, machine learning, neural architecture search, causal inference, statistical modelling for sustainable development, natural language processing, and applied AI for public health and edge computing.

Education

2023 – 2025 University of Rajshahi, Bangladesh

Master of Science (MSc) in Statistics

Research interests: Artificial Intelligence. Result: First Class (CGPA 3.36).

2019 – 2023 University of Rajshahi, Bangladesh

Bachelor of Science (BSc) in Statistics

Research interests: Statistical Inference & Machine Learning. Result: First Class (CGPA 3.24).

Research Experience

Apr 2025 – Present Data Science Research Lab, University of Rajshahi

Research Associate

Working under Prof. Dr. M. Rezaul Karim on machine learning applications for public health, neural architecture search for edge hardware, and causal inference for sustainable development goals. Author of 7+ arXiv preprints in ML, NAS, NLP, and statistical modelling.

Publications

- [1] **Child Mortality Prediction in Bangladesh: A Decade-Long Validation Study**
M. M. Fahim, M. R. Karim. *arXiv preprint*, 2026. arXiv:2602.03957
- [2] **Green-NAS: A Global-Scale Multi-Objective Neural Architecture Search for Robust and Efficient Edge-Native Weather Forecasting**
M. M. Fahim et al. *arXiv preprint*, 2026. arXiv:2602.00240
- [3] **The Depth Delusion: Why Transformers Should Be Wider, Not Deeper**
M. M. Fahim, M. R. Karim. *arXiv preprint*, 2026. arXiv:2601.20994
- [4] **Pre-trained Encoders for Global Child Development: Transfer Learning Enables Deployment in Data-Scarce Settings**
M. M. Fahim, M. R. Karim. *arXiv preprint*, 2026. arXiv:2601.20987
- [5] **Distributed Causality in the SDG Network: Evidence from Panel VAR and Conditional Independence Analysis**
M. M. Fahim et al. *arXiv preprint*, 2026. arXiv:2601.20875
- [6] **The Dependency Divide: An Interpretable ML Framework for Profiling Student Digital Satisfaction in the Bangladesh Context**
M. M. Fahim, H. Ankona, M. M. Huq, M. R. Karim. *arXiv preprint*, 2026. arXiv:2601.01231
- [7] **A Multi-Model Approach to English-Bangla Sentiment Classification of Government Mobile Banking App Reviews**
Md. N. Molla, M. M. Fahim, Md. Binyamin, M. R. Karim. *Preprint*, 2026. ResearchGate

Conference Presentations

Apr 2026 IEEE QPAIN 2026 – CUET, Chattogram, Bangladesh

Presenter

Green-NAS: A Global-Scale Multi-Objective Neural Architecture Search for Robust and Efficient Edge-Native Weather Forecasting. qpain.org

Apr 2026 DAAS 2026 – Bangladesh Agricultural University, Mymensingh

Presenter

Green-NAS: Multi-Objective Neural Architecture Search for Sustainable and Efficient Weather Forecasting in Data-Scarce Agricultural Regions.

Dec 2025 ICASDS 2025 – University of Dhaka, Bangladesh

Presenter

Targeting Renewable Energy Investments to Maximize Emissions Reductions: Precision Climate Finance.

Nov 2025 ICRAST 2025 – University of Rajshahi, Bangladesh

Presenter

Dependency Divide: An Interpretable ML Framework for Profiling Student Digital Satisfaction.

Sep 2025

RUEC 2025 – University of Rajshahi, Bangladesh

Co-Author

Antibiotic Misuse and Antimicrobial Resistance Knowledge Among University Students in Bangladesh.

Dec 2024

ICRSDS4IR 2024 – University of Rajshahi, Bangladesh

Volunteer

8th International Conference on The Role of Statistics and Data Science in 4IR.

Technical Skills

- **Programming:** Python, R, SQL, JavaScript, TypeScript
- **ML / AI:** PyTorch, scikit-learn, Hugging Face Transformers, LangChain
- **Statistics:** Bayesian Inference, Panel VAR, Survival Analysis, Causal Inference
- **Tools:** Git, Linux/Bash, L^AT_EX, Jupyter, Docker
- **Web Design:** HTML/CSS, React, Astro, WordPress
- **Design:** Adobe Illustrator, Photoshop, InDesign, Lightroom, Figma
- **Video Editing:** Adobe Premiere Pro, After Effects

Leadership & Volunteering

Jan 2019 – Dec 2023

Nobojagoron Foundation, Rajshahi

Volunteer / Joint Secretary / Head of R&D / Design Team Lead

Largest volunteer organization at the University of Rajshahi (SDG Goal 4). Began as a volunteer providing education support to underprivileged children, progressing through leadership roles managing volunteer development workshops, visual communications, and community outreach. njf.org.bd

Sep 2022 – Oct 2022

Real Star Society, Rajshahi

Program Intern

Event management, health advocacy, environmental conservation, and visual content for community outreach.

Feb 2021 – Jul 2025

Fiverr (fiverr.com/fahim_rahmann)

Level Two Seller — Web Development

200+ projects in WordPress, Shopify, and Wix development. 4.8+ rating over 4+ years. Custom themes, e-commerce, CMS migration, and responsive design.

References

- **Prof. Dr. M. Rezaul Karim** (Supervisor) — Professor, Dept. of Statistics, University of Rajshahi. [Faculty profile](#)
- **Prof. Dr. M. Monimul Huq** (Supervisor) — Professor, Dept. of Statistics, University of Rajshahi. [Faculty profile](#)
- **Prof. Dr. M. Sabiruzzaman** (Course Teacher) — Professor, Dept. of Statistics, University of Rajshahi. [Faculty profile](#)

Contact details available upon request.