Sakil Ahmed

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RESEARCH SUMMARY

Aspiring PhD researcher with published work in machine learning and deep learning, focusing on predictive modelling and healthcare applications. Experienced with the full research cycle problem scoping, data collection, modelling with TensorFlow/PyTorch, result analysis, and dissemination through peer-reviewed venues. Interested in applied AI for real-time systems, trustworthy ML, and human-centred AI.

RESEARCH INTERESTS

• Applied Machine Learning; Deep Learning (CNNs/RNNs/Transformers)

• AI for Healthcare and Biosignals; Time-series & Multimodal modelling

• Real-time & Edge AI; Systems for ML; Model Optimisation and Evaluation

• Human-centred & Trustworthy AI; Evaluation, Fairness, and Robustness

EDUCATION

Master of Software Engineering, Federation University, Australia (2023–2024)

• Focus: software engineering principles, algorithm optimisation, SDLC, applied ML

• Major Project: Little Avenue Des Italians – full-stack e-commerce website for a café with UCD & Agile Scrum. Features: dynamic shopping cart, catering booking, Stripe payments, live chatbot, 360° virtual tour (Pannellum), admin/customer dashboards; PHP 7.4+, MySQL 5.7+, Tailwind CSS, JS (ES6+).

Bachelor of Science in Computer Science and Engineering, North South University, Bangladesh (2017–2022)

PUBLICATIONS

Ahmed, S. (2021). Advanced Machine Learning Techniques for Predictive Modeling. Mathematical Problems in Engineering. https://doi.org/10.1155/2021/9929274

Ahmed, S. (2021). Deep Learning Algorithms in Healthcare Applications. Journal of Healthcare Engineering. https://doi.org/10.1155/2021/1002799

RESEARCH EXPERIENCE

Casual Research Assistant, North South University — 2019–2021

• Supported multiple ML projects: data acquisition, cleaning, EDA, and model prototyping.

• Prepared materials for talks and coordinated timelines; contributed to peer-reviewed outputs.

• Communicated complex findings to technical and non-technical audiences.

TEACHING & ACADEMIC ENGAGEMENT

Lecturer (Physics), Exclusive Science Zone — 2017–2022

• Delivered lectures and labs; created curricula and assessments aligning with current standards.

• Translated complex quantitative concepts into accessible explanations; promoted inquiry-based learning.

SELECTED PROJECTS (MASTER'S)

Little Avenue Des Italians Website — Lead Backend & Integration (Team project)

• UCD-driven, Agile Scrum; login/registration (admin & customer), product catalogue, dynamic cart, catering booking, live chat, responsive UI.

• Payments via Stripe; 360° virtual tour (Pannellum); admin/customer dashboards; PHP/MySQL backend with modular scripts and RESTful interactions.

• Testing: unit (PHPUnit), integration, system, UAT; CI considerations; BrowserStack cross-device checks.

• Performance & security: minification, lazy loading, CDN, SSL, MFA for admin; PCI-DSS aligned processing through Stripe.

TECHNICAL SKILLS

Programming: Python, Java, C/C++

ML/DS: TensorFlow, PyTorch, Keras; NumPy, Pandas; Scikit-learn; basic CUDA

Backend & DB: PHP 7.4+, Node.js (basic), REST APIs; MySQL/SQL

Frontend: HTML5, CSS3/Tailwind CSS, JavaScript (ES6+), AOS, Swiper.js

Tools: Git/GitHub, VS Code, Lucidchart, Figma/Adobe XD, BrowserStack

Platforms: Windows, Linux

AWARDS & ACHIEVEMENTS

• Multiple journal publications in ML and healthcare.

PROFESSIONAL EXPERIENCE (CONCISE)

Cargo Agent, dnata, Sydney Airport — 2024–Present (industry role; omitted details for academic focus)

Logistics & Packing, Ensign Linen Service, Sydney — 2023–2024

VOLUNTEERING

Volunteer, Vivid Sydney — 2024

REFERENCES

Dr. Mohammad Monirujjaman Khan — Associate Professor, North South University — monirujjaman.khan@northsouth.edu

Dr. Mahdy Rahman Chowdhury — Associate Professor, North South University — mahdy.chowdhury@northsouth.edu