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Habibur Rahaman Fahim

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LinkedIn: linkedin.com/in/hr-fahim

Student Visa (Subclass 500): 48 hrs/fortnight, full-time in breaks

PROFESSIONAL SUMMARY

Master of Data Science (Professional) student at **Deakin University** with experience in AI engineering, machine learning, data analytics, research, software, and data engineering, including developing AI agents, RAG systems, MLOps workflows, and cloud-deployed applications. Published **IEEE** researcher with strong analytical, problem-solving, and stakeholder collaboration skills.

EDUCATION

Deakin University — School of Information Technology (SIT), *Victoria, Australia*
Master of Data Science (Professional) (MDS) *Feb. 2026 – Nov. 2027*
Award: Deakin International Meritorious Scholarship (25%)

North South University — Department of Electrical Computer Engineering (ECE), *Dhaka, Bangladesh*
B.Sc. in Computer Science and Engineering (CSE) *Jan. 2019 – Apr. 2025*

TECHNICAL SKILLS

Programming: Python, R, Java, SQL, C, C++, Fortran
Machine Learning & AI: Machine Learning, Deep Learning, NLP, LLMs, RAG, Multi-Agent AI Orchestration, LangChain, LangGraph, TensorFlow, PyTorch, Scikit-learn, Hugging Face Transformers
Data Analytics: Statistical Analysis, Predictive Modelling, Time-Series Forecasting, Feature Engineering, A/B Testing,
Cloud & DevOps: Azure, AWS, Docker, Kubernetes, Git, Azure ML, Vertex AI, AWS SageMaker, AWS Lambda, EC2 GPU, Azure GPU VMs, Azure AI Studio, OpenAI API, CI/CD (GitHub Actions)
Databases: PostgreSQL, MongoDB, MySQL, Snowflake, Databricks
Web Technologies: Django, FastAPI, React.js, Node.js

PART-TIME EXPERIENCE

Meriton Suites Melbourne, *Victoria, Australia*
Hotel Room Attendant *Jul. 2026 – Current*

- Maintained guest rooms and public areas to 5-star hospitality standards while consistently meeting quality targets.
- Collaborated with front office teams to ensure timely room readiness and deliver an exceptional guest experience.
- Demonstrated strong attention to detail and time management by prioritising tasks in a challenging environment.

INTERNSHIP EXPERIENCE

EkkBaz Bangladesh Pvt. Ltd., *Dhaka, Bangladesh*
Artificial Intelligence Engineer Intern *Sep. 2024 – Mar. 2025*

- Built a multi-agent AI system for B2B supply chain using LangChain and LangGraph; deployed on Azure AI Studio while reducing vendor matching time by around 35%.
- Integrated real-time updates via Django REST API; improved retrieval accuracy by 18% through RAG and prompt tuning.
- Orchestrated handoffs between planning, execution, and verification agents to ensure production-grade agentic workflows.

AI & DATA SCIENCE PROJECTS

Policy Compliance Guardian (Google AI ADK)
Agents Intensive - Capstone Project with Google *Oct. 2025 – Dec. 2025*

- Architected a multi-agent system with three collaborating agents (Monitor, Authoriser, Comparison) orchestrated via Google ADK workflows, Gemini 2.5, and Model Context Protocol (MCP) to automate whole policy-document review.
- Integrated custom OAuth tools (Google Drive fetcher, Gmail Notifier) with service-account authentication and robust error handling, and deployed Docker-containerised FastAPI/Uvicorn to Google Cloud Run for production-grade performance.

Stock Market Price Prediction Using Time-Series Forecasting
Guide: Dr. Md. Mahmudul Alam *Jan. 2025 – Apr. 2025*

- Built time-series forecasting models for NVIDIA stock prices using LSTM, XGBoost, and ARIMA on Alpha Vantage data.
- Performed data preprocessing, stationarity checks, seasonal decomposition, feature engineering, and model evaluation; LSTM achieved the best performance with a MAPE of 1.32%.

QUANTITATIVE RESEARCH PROJECTS

DynaMoE-LPE: Few-Shot Question Answering Framework Enhancement
Guide: Dr. M.R.C. Mahdy *Jan. 2024 – Dec. 2024*

- Contributed to a transformer-based few-shot question-answer framework integrating Dynamic Multi-Head Attention, Simplified MoE, and Learnable Positional Encoding (LPE), supported by a 10k-vocab BPE tokenizer, span-alignment logic, and adaptive attention masking for improved reasoning in low-resource settings.
- Fine-tuned BERT, RoBERTa, DistilBERT, ALBERT, SpanBERT, Splinter on minimal samples using cosine annealing, gradient clipping, FP16 mixed precision, dropout, and early stopping, and outperforming baseline/meta-learning methods across multiple question-answer datasets.

Search for Extraterrestrial Intelligence (SETI): Signal Image Analysis Using CNNs
Guide: Independent Academic Dissertation *Jun. 2023 – Apr. 2024*

- Built SETI signal-classification pipeline using a three-branch CNN ensemble (InceptionResNetV2 + ResNet50 + MobileNetV2) with SpecAugment, per-backbone preprocessing, class-balanced training, MD5 leakage checks, and multi-seed evaluation, achieving around 95% accuracy with stable bootstrap confidence intervals.
- Implemented a full experimental workflow with STFT-based spectrograms, custom augmentation, class-weighting, cosine LR scheduling, early stopping, and Grad-CAM interpretability, enabling reliable classification of 7 radio-signal types across 5600/700/700 train-val-test samples.

RESEARCH PUBLICATIONS

- H. R. Fahim, M. Hasan, **K.M.A. Salam**. Detection of Black Holes from Stellar Datasets Using Machine Learning. In *2024 IEEE International Conference on Future Machine Learning and Data Science (FMLDS)*, pages 468–473. IEEE, 2024.

HACKATHONS & ENTREPRENEURSHIP

UNIHACK (2026)
Organised by Monash University, Clayton Campus

- Within 887 participants, we built a dual-sided campus food-sharing marketplace with real-time Firestore sync, role-based views (Customer vs Cooker), seamless ordering flows, and Google OAuth University-email verification for secure access.
- Engineered a scalable stack using React 19, TypeScript, Vite, Tailwind, Firebase Auth/Firestore, implementing RBAC, live feed updates, pricing logic, and trust-and-safety controls (strike/ban), supporting 5600+ meals and multi-persona UX.

Deakin Founder Pathways: Inspo Fest
Organised by HEX & Deakin University, Burwood Campus

- Completed Deakin's Founder Pathways: Inspo Fest program, gaining hands-on training in entrepreneurship, startup development, AI-driven innovation, business validation, and venture creation, aligned with real-world founder skillsets.
- Engaged in practical workshops on ideation, prototyping, customer discovery, pitch development, and lean startup methods, strengthening capability to design, test, and launch scalable tech-enabled ventures.

LEADERSHIP & VOLUNTEERING

Volunteer Event Staff, *Victoria, Australia*
Mother's Day Classic (2026), Box Hill

- Assisted 100+ participants with registration, wayfinding, and event-day queries, then ensured smooth operations.

CERTIFICATIONS

- SEED-AI (Skills for Education, Employment and Digital AI), *Deakin SME Research Centre, 2026*
- Neural Networks and Deep Learning, *Coursera, 2025*
- Advanced Learning Algorithms, *Coursera, 2025*

LANGUAGES

- English (IELTS Academic Overall 6.5)
- Bangla (Native)
- Hindi (Professional Working Proficiency)

REFERENCES

References available upon request.