

Md. Intikhab Shahriar Hasan

Mirpur-1, Dhaka • +8801954078954 • shahriarkane@gmail.com

[GitHub](#) • [LinkedIn](#) • [Kaggle](#)



Career Objective

M. Sc candidate with recent B. Sc graduation in Electrical and Electronic Engineering (EEE), having expertise in Data Science, Machine Learning, Deep Learning, and Artificial Intelligence. Currently, I'm a part-time AI Data Specialist for RWS Group & Invisible Technologies, and also an intern Data Analyst at Infotact Solutions. Seeking an ML/ AI Engineering, Data Science & Analytics, or Data Engineering role to optimize data-driven strategies, enhance decision-making, and drive operational efficiency through innovative AI and data-centric solutions for organizational growth and success.

Technical Skills

- **Expertise Domain:** Data Science & ML, Computer Vision, NLP, Data Engineering, MLOps
- **Programming Languages:** Python, JAVA, C, C++, MATLAB, R
- **Frameworks:** PyTorch, TensorFlow, Scikit-Learn, Pandas, NumPy, LangChain, LlamaIndex
- **Databases:** MYSQL, PostgreSQL, MSSQL, MongoDB, Redis
- **Data Engineering:** Kafka, Spark, Hadoop, Tableau, Power BI
- **DevOps:** Docker, Kubernetes, Firebase, FastAPI, Git

Professional Experience

AI Data Specialist

[RWS Group](#) • Part-Time • Remote

Apr 2025 - Present
Maidenhead, England, UK

[Invisible Technologies](#) • Contract • Remote

Aug 2025 - Present
San Francisco, California, US

- **Reviewed and scored 500+** LLM/ Generative AI outputs per week (text, audio, image, video) against predefined quality metrics, ensuring accuracy, cultural appropriateness, and compliance
- **Detected and flagged safety incidents by 20%** (hallucinations, bias, toxicity, policy violations), contributing to safer and more reliable AI model deployments
- **Conducted A/B testing, ranking, and scoring** to benchmark model performance, implementing data-driven fine-tuning decisions to **improve model accuracy by 8%**
- Recommended **enhancements to optimize NLP pipelines**, improving model precision, robustness, and user experience through iterative feedback loops
- **Generated multimodal datasets** (text, image, audio, video) for training, fine-tuning, and benchmarking of LLMs, chatbots, search engines, and virtual assistants
- implemented **standardized annotation guidelines** to control data quality for **streamlining model debugging and (re) training**

Data Analyst

[Infotact Solutions](#) • Intern • Remote

Aug 2025 - Present
Bengaluru, Karnataka, India

- Collaborating with the organization's Data Analytics, Machine Learning, Software Engineering, and Full-Stack Development departments
- **Real-Time Ghost-Bus Detector:** Developed a data pipeline to ingest and parse GTFS real-time data from Delhi's transit authority, built an analytics engine to detect anomalies, and put out a live map dashboard that visually distinguishes reliable transports from stale ones
- **Actual Time E-Commerce Trend Analyzer:** Set up a high-throughput pipeline to ingest user interaction, made a stream-processing application to identify trending products in real-time, and provided a live dashboard for marketing and inventory teams to monitor these trends

Education

Master of Science in Electrical and Electronic Engineering

May 2024 - May 2026

University of Dhaka

- CGPA: 3.40/4.0
- Relevant coursework on AI and ML, Deep Learning, Advanced Digital Signal Processing, Digital Image Processing, High-Speed Networks, and Cybersecurity.
- Thesis (Ongoing) on 'Multimodal Emotion-Adaptive Chat AI Agent', combining speech, facial, and textual inputs to detect emotional cues, which will tailor the agent's response

Bachelor of Science in Electrical and Electronic Engineering

Jan 2019 - April 2024

University of Dhaka

- CGPA: 3.38/4.0
- Specialization in Communication Systems and Signal Processing.

Projects

Speech Emotion Recognition

May 2025 - Feb 2026

- Identified 8 different emotion categories from human speech using the RAVDESS dataset
- Raw audios were preprocessed by down-sampling, mean removal, fixed starting offset, and fixed truncation length
- Obtained 99.65% accuracy by fine-tuning Meta's Wav2Vec 2.0-base pretrained audio transformer model in Hugging Face

Facial Expression Recognition

Nov 2024 - Feb 2025

- Detected 7 different facial expressions from the KDEF dataset
- Images were transformed and normalized using torch to fine-tune the DenseNet121 model
- Acquired 96.26% accuracy, conducting a 50-epoch-long training

Soil-Moisture Estimation

Jul 2023 - Feb 2024

- Implemented a non-contact soil-moisture estimation technique using CW Radar, also proposing the mathematical model for using CW Radars to predict soil's moisture content
- Using 15-second windows, transformed raw signals into time-frequency scalograms with Continuous Wavelet Transform (CWT), converted to images for leveraging deep learning
- Achieved 93.05% accuracy using Microsoft's BeiT-base pretrained vision transformer model from Hugging Face, predicting Dry, Moist, and Wet soil moisture categories

Professional Training

Auditing/ Self-studying following professional certifications and specializations from Coursera:

- **Google's** Data Analytics, Advanced Data Analytics, Cloud Database Engineer
- **Microsoft's** Power BI Data Analyst, AI & ML Engineering
- **IBM's** Data Science, Data Engineering, and AI Engineering
- **Deeplearning.ai's** ML, DL, & NLP Specializations, ML in Production
- **Meta's** Full-Stack Developer, Database Engineer, iOS & Android Developer
- **Amazon's** Junior Software Developer, AWS Cloud Solutions Architect
- **IBM's** DevOps & Software Engineering, **Google's** Cloud DevOps Engineer
- **Duke University's** MLOps & LLMOps, **Tableau** BI Analyst, **Snowflake** Data Engineering

Extra-Curricular Activities

Website Administrator • IEEE MTT-S Student Branch Chapter

Jul 2023 - Jul-2024

- Founding Webmaster of [IEEE MTT-S SBC, University of Dhaka](#), established the website from scratch and maintained it for 1 year, performed SEO to increase website traffic by 30%
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