



Israt Jahan

📍 130, South Kutubkhali, Jatrabari, Dhaka-1236
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Summary

To secure a position in such an organization that encourages creativity, empowerment, and entrepreneurial spirit and that hires individuals who are confident and ready to make a difference and where my qualities of a fast learner and the ability to take on new challenges can be used to take my career to new heights.

Technical Skills

Programming Languages: Python, Java, C++, SQL, HTML, CSS

Frameworks & Libraries: TensorFlow, Keras, PyTorch, OpenCV

Data Analysis Tools: NumPy, Pandas, Matplotlib, Seaborn

Big Data Analysis: Hadoop, Apache Spark

Professional Experience

Graduate Teaching Assistant at East West University, Department of MPS

June 2025 – Present

Research Assistant at Core Research & Testing Laboratory

June 2025-Present

Research Assistant at CHOWDHURY AI AND CYBERSECURITY RESEARCH LAB, Australia

March 2025-Present

Data Annotator at QuantigoAI

December 2022 – March 2025

Membership Engagements

Peer Reviewer at C5K Research Publication

April 2025-Present

Port Isabel, TX 78578, USA

PC Member at IICAET

February 2025-Present

Kota Kinabalu, Malaysia

Education

B.Sc. in Computer Science & Engineering at East West University

February 2021 – May 2025

Mejor: Data Science

CGPA: 3.54

M.Sc. in Computer Science & Engineering at East West University

June 2025 – Present

Mejor: Data Science

CGPA: 3.83

PUBLICATIONS

- “Improving Sleep Disorder Diagnosis Through Optimized Machine Learning Approaches,” *IEEE Access*, vol. PP, no. 99, pp. 1-1, January 2025. DOI: <https://doi.org/10.1109/ACCESS.2025.3535535>
- "Deep Learning-Driven Real-Time Visual Pollution Detection and Multi-Class Waste Classification in Urban and Textile Landscapes," *Procedia Computer Science*, vol. 252, no. 3, pp. 529-538, January 2025. DOI: [10.1016/j.procs.2025.01.012](https://doi.org/10.1016/j.procs.2025.01.012)
- “Predicting Post-Thoracic Surgery Life Expectancy for Lung Cancer Using Machine Learning with SHapley Additive ex-Planations,” 27th International Conference on Computer and Information Technology, April 2025, Cox’s Bazar, Bangladesh. DOI: [10.1109/ICCIT64611.2024.11022499](https://doi.org/10.1109/ICCIT64611.2024.11022499).
- “Fusion of Classical ML and LSTM Architectures for Enhanced Human Activity Recognition in Modern Healthcare Technology,” 27th International Conference on Computer and Information Technology, December 2024, Cox’s Bazar, Bangladesh. DOI: [10.1109/ICCIT64611.2024.11022358](https://doi.org/10.1109/ICCIT64611.2024.11022358)

- **“Automated Detection of Image-Based Abusive Bengali Memes Using Ensemble and Deep Learning Models,”** 2024 IEEE International Conference on Signal Processing, Information, Communication and Systems (SPICSCON), November 2024. DOI: [10.1109/SPICSCON64195.2024.10941667](https://doi.org/10.1109/SPICSCON64195.2024.10941667).
- **“AI-Driven Collaborative Robotics in Agriculture: Optimizing Soil and Crop Yield,”** in *Exploring Generative AI for Collaborative Robots in Agriculture 6.0*, IGI Global Scientific Publishing, August 2025. DOI: [10.4018/979-8-3373-4207-8.ch003](https://doi.org/10.4018/979-8-3373-4207-8.ch003)
- **Detection of Cleft and Non-Cleft Lip Features with a Multi-Task Image Processing Network,** International Conference on Computational Intelligence and Information Retrieval (CIIR 2025), April 2025, Kolkata, India. ([Accepted](#)).
- **Advanced Techniques for Skin Disease Identification and Segmentation through Machine Learning and Deep Learning,** INTERNATIONAL CONFERENCE ON DATA MINING AND INFORMATION SECURITY, April 2025, Kolkata, India. ([Accepted](#))
- **Enhancing Cardiac Arrhythmia Detection: Deep Learning Based CNN-LSTM-Attention Framework for Digitized ECG Classification,** 3rd International Conference on Innovations in Data Analytics, December 2024, Kolkata, India. ([Accepted](#))

Projects

AI-Driven Drug Recommendation and Chatbot System Using Retrieval-Augmented Generation at Fine-tuned Gemma-2.0-7b for an RAG-based Chatbot, Integrating RoBERTaConvNet Model. ([Ongoing](#))

Banking-Management-System-SQL using HTML-CSS frontend with MySQL backend, designed and tested using HTML, CSS, and MySQL on Oracle Apex. ([Github](#))

ItalyFood-Food-Management-System-Website responsive Restaurant Management Website. ([Github](#))

Thesis Research

GoldenharVision: An Enhanced Explainable AI-Driven Deep Learning and Transformer-Based Approach for Automated Image Processing, Diagnosis of Goldenhar Syndrome Using Multimodal Medical Data. ([Ongoing](#))

Data Collection and Analysis

Goldenhar-CFID: A Novel Dataset for Craniofacial Anomaly Detection in Goldenhar Syndrome, Published: 28 February 2025. DOI: [10.17632/ffsthyxp4d.3](https://doi.org/10.17632/ffsthyxp4d.3)

CLP-NC: Comprehensive Dataset for Machine Learning-Based Morphological Analysis of Cleft Lip and Palate Variants Using Multimodal Medical Imaging, Published: 18 March 2025. DOI: [10.17632/yp6fxdymp.3](https://doi.org/10.17632/yp6fxdymp.3)

Volunteer Experience

General Member at East West University Robotics Club, Dhaka

Feb 2024 – Present

General Member at East West University Debating Club, Dhaka

Sep 2022 – Present

Awards

Received **Best Paper Award** at the **International Conference on Data Mining and Information Security (ICDMIS 2024)**.

Champion of the **Data War** in **National Telco Warfare 2024**.

Achieved **3rd Place** in **Robosoccer Contest** at **EWU CSE Fest 2024**.

Awarded **Razia Samad Merit Scholarship** by East West University.

Certifications

Completed **Machine Learning & Data Science** from **National Academy for Computer Training and Research (NACTAR)**.

Worked as a **Graphic Designer** at **Dreamland IT**.

Event Designer for “*Satellite Communication in Bangladesh*”, organized by **EWU Telecommunications Club**.

References

Dr. Ahmed Wasif Reza

Professor & Dean,

Department of Computer Science and Engineering

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Dr. Md. Nawab Yousuf Ali

Professor

Department of Computer Science and Engineering

East West University

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