Department of CSE
Independent University Bangladesh
📞 (+880)1954465149
✉ junayed.ndc16sets@iub.edu.bd
⚙ Github   in Linkedin
≡ ResearchGate Profile
≡ Personal Site

Md Junayed Hossain

Profile

I enjoy turning complex data into insightful stories that enhance the area of machine learning since I'm curious and on a quest for knowledge.

Experiences

September : 2023 - Ongoing **Adjunct Lecturer**, *Independent University Bangladesh*.
Courses
- **Introduction to Computer Programming.**
- **Algorithms.**

July : 2023 - 17 September 2023 **Research Engineer**, *Independent University Bangladesh*.
Research Topic : Application of Biomedical Signal Processing, Analysis, and Classification to Identify the Biomarkers of Stroke for Early Prediction and Post-Stroke Recovery.

April : 2023 - June : 2023 **Data Analyst, Trainee**, *ADN Diginet*.
Power BI, Data Scrapping, Data Cleaning, Data Visualization, Implement ML Algorithms.
- **Creating Sales Dashboard using PowerBi.**
- **Integrating ML for Sales Prediction.**

Education

2018–2022 **BSc in Computer Science and Engineering** , *Independent University Bangladesh*, (Dhaka), Magna Cum Laude.

2014–2016 **HSC**, *Notre Dame College*, (Dhaka).
GPA : 5.00

2012–2014 **SSC**, *Dhaka Residential Model College*, (Dhaka).
GPA : 5.00

Publications

In Conference Proceedings

2024 Sumaia Anjum Shaba, Sharmin Islam Shroddha, **Md Junayed Hossain**, and Md Fahad Monir. **NeuralGesture Communication: Translating one Sign Language to Another Sign Language Using Deep Learning Model and gTTs**. In *2024 IEEE 99th Vehicular Technology Conference (VTC2024-Spring)*, pages 1–5. IEEE, 2024.

2024 Md Fahad Monir, **Md Junayed Hossain**, Mohammad Barkatullah, Md Mozammal Hoque, Zoheb Hassan, and Tarem Ahmed. **Enhanced Vehicle Detection by Optimized Image Compression in NextG Wireless Network Autonomous Vehicles System**. In *2024 IEEE 100th Vehicular Technology Conference (VTC2024-Fall)*, pages 1–5, 2024.

2024 Khorshed Alam, Mahbubul Haq Bhuiyan, **Md Junayed Hossain**, Md Fahad Monir, and Md Asif Bin Khaled. **Advancements in Bangla Speech Emotion Recognition: A Deep Learning Approach with Cross-Lingual Validation**. In *2024 IEEE 99th Vehicular Technology Conference (VTC2024-Spring)*, pages 1–5. IEEE, 2024.

2023 **Md. Junayed Hossain**, Mohammad Barkatullah, Md Fahad Monir, and Tarem Ahmed. **Repercussion of Image Compression on Satellite Image Classification using Deep Learning Models**. In *2023 IEEE 98th Vehicular Technology Conference (VTC2023-Fall)*, pages 1–5, 2023.

2023 **Md Junayed Hossain**, Sheikh Md Abdullah, Mohammad Barkatullah, and Md Fahad Monir. **Exploring the Efficacy of BERT in Bengali NLP: A Study on Sentiment Analysis and Aspect Detection**. In *IEEE EUROCON 2023-20th International Conference on Smart Technologies*, pages 54–59. IEEE, 2023.

2022 **Md. Junayed Hossain**, Jannatul Ferdaus, Saifur Rahman, and Sarmin Akter Santa. **Multiclass Classification of GvHD and Relapse: A Comparative Analysis Among Machine Learning and ANN-based Algorithms**. In *2022 25th International Conference on Computer and Information Technology (ICCIT)*, pages 489–494, 2022.

2022 **Md Junayed Hossain**, Sheikh Md Abdullah, Mohammad Barkatullah, M Saef Ullah Miah, Talha Bin Sarwar, and Md Fahad Monir. **Predicting the Success of Suicide Terrorist Attacks using different Machine Learning Algorithms**. In *2022 25th International Conference on Computer and Information Technology (ICCIT)*, pages 378–383. IEEE, 2022.

Book Chapter

2022 Md Asif Bin Khaled, **Md Junayed Hossain**, Saifur Rahman, and Jannatul Ferdaus. **Multiclass classification for gvhd prognosis prior to allogeneic stem cell transplantation**. In *Australasian Joint Conference on Artificial Intelligence*, pages 487–500. Springer, 2022.

In Poster Presentation

2024 Md Junayed Hossain and Ashraful Islam. **Leukemia Classification: A Comprehensive Evaluation of Deep Learning Models with Pixel Reduction**. In *46th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, Orlando, Florida, USA*. IEEE, 2024.

Accepted

2024 Md Junayed Hossain, Shoptorshi Rahman, Md Fahad Monir, and Tarem Ahmed. **Comparative Performance of Object Detection Algorithms Under Low Illumination Conditions**. In *SoutheastCon is the annual IEEE Region 3 Technical, Professional, and Student Conference. (IEEE SoutheastCon 2025)*, Charlotte/Concord, NC, 2024.

2024 Md Junayed Hossain, Md Fahad Monir, and Tarem Ahmed. **Hybrid Approaches of ROI Extraction and Pixel Reduction for Classifying Kidney Abnormalities**. In *SoutheastCon is the annual IEEE Region 3 Technical, Professional, and Student Conference. (IEEE SoutheastCon 2025)*, Charlotte/Concord, NC, 2024.

In review

2025 Moinul Alam, Mostafa Hasan, Arvil Nath, Md Junayed Hossain, and Sanzar A Alam. **A Theoretical Framework for Decentralized Intrusion Detection in Smart Networks using Blockchain and Machine Learning**. In *International Conference on Advanced Information Networking and Applications 2025*, Barcelona, Spain, 2025.

Ongoing Research

2024 Md Junayed Hossain and Md Fahad Monir. **Explainable AI Meets Synthetic Data: A Deep Learning Framework for Detecting Netwrok Intrusion.** Journal of Network and Computer Applications, 2024.

2024 Md Junayed Hossain, Asif Bin Khaled, and Md Fahad Monir. **Reducing Computational Costs and Latency in Medical Image Analysis on O-RAN Networks Through Downsampling and Superresolution**. IEEE Access, 2024.

2024 Md Junayed Hossain, , Jannatul Ferdaus, and Md Ashraful Islam. **A CNN-Based Framework for Cattle Weight Estimation: Overcoming Challenges in Agricultural Management**. Journal of King Saud University Computer and Information Sciences, 2024.

Fellowships & Awards

2023	***Best Undergraduate Researcher-2023,*** Independent University, Bangladesh
2022-2023	***Vice Chancellor Award,*** Independent University, Bangladesh
2021-2022	***Dean Merit Award,*** Independent University, Bangladesh

Projects

University Projects

Fall, 2021	**Government Project Monitoring System**, Using Core java, Java FXML and Database concept.
Spring, 2021	**Student Performance Monitoring System**, Using HTML, CSS, JavaScriptt, NodeJs, ExpressJs, MongoDB..
Fall, 2020	**University Course Helping Software (Web Application + Android Application)**, Using BOOTSTRAP, PHP, based on database concept and Android Studio..
Fall, 2020	**Java Project [Airbnb]**, Using Core java, Java FXML and File Handling System..

Computer skills

Programming Languages	Python, PyTorch, keras, C, C++, Advanced JAVA
Web Technologies	HTML 5, PHP, Javascript
Database	SQL, MySQL, MongoDB

Teaching Assistantship

Fall, 2022	**CSE 317: Numerical Methods**, IUB.
Spring, 2021	**CSE 203: Data Structure**, IUB.

References

Mr Tarem Ahmed, PhD, SMIEEE
Associate Professor,
Computer Science & Engineering
Independent University Bangladesh
☎ (+88) 01732822599
✉ tarem@iub.edu.bd

Mr. MD Asif Bin Khaled
Senior Lecturer,
Computer Science & Engineering
Independent University Bangladesh
☎ (+88) 01676076329
✉ mdasifbinkhaled@iub.edu.bd

Mr Md Fahad Monir
Senior Lecturer,
Computer Science & Engineering
Independent University Bangladesh
☎ (+88) 01639663153
✉ fahad.monir@iub.edu.bd