

S M Asiful Huda

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in S M Asiful Huda

🌐 <https://s-masif.github.io/>

📍 SM Asiful Huda

Education

- 2021 – 2023  **M.Sc. Computer Engineering, Chosun University, South Korea.**
Thesis title: *Reinforcement learning-based offloading in unmanned aerial vehicle-aided edge computing systems.*
CGPA: 4.43/4.50
- 2015 – 2019  **B.Sc. Computer Science, East West University, Bangladesh.**
Thesis title: *An improved approach for detection of diabetic retinopathy using feature importance and machine learning algorithms.*
CGPA: 2.86/4.00

Selected Publications

Journal Articles

- 1 **Huda, S. M. A.** and S. Moh, “Deep reinforcement learning-based computation offloading in uav swarm-enabled edge computing for surveillance applications,” *IEEE Access*, vol. 11, no. 1, pp. 68 269–68 285, 2023.  DOI: 10.1109/ACCESS.2023.3292938.
- 2 **Huda, S. M. A.** and S. Moh, “Survey on computation offloading in uav-enabled mobile edge computing,” *Journal of Network and Computer Applications*, vol. 201, pp. 1–26, 2022.  DOI: 10.1016/j.jnca.2022.103341.

Conference Proceedings

- 1 **Huda, S. M. A.** and S. Moh, “Transfer learning algorithms in unmanned aerial vehicle networks: A comprehensive review,” in *Proceedings of the 11th International Conference on Smart Media and Applications (SMA 2022)*, KISM and KISTI, Saipan, USA, Oct. 2022, pp. 9–14.
- 2 **Huda, S. M. A.**, E. M. Mahir, A. A. Tanvir, and S. Moh, “Evaluation of machine learning models for detecting network-based intrusions,” in *Proceedings of the 10th International Conference on Smart Media and Applications (SMA 2021)*, KISM and ACM, Gunsan, Korea, Sep. 2021, pp. 27–31.
- 3 Abdullah-All-Tanvir, E. M. Mahir, **Huda, S. M. A.**, and S. Barua, “A hybrid approach for identifying authentic news using deep learning methods on popular twitter threads,” in *Proceedings of the 2020 International Conference on Artificial Intelligence and Signal Processing (AISP)*, 2020, pp. 1–6.  DOI: 10.1109/AISP48273.2020.9073583.
- 4 **Huda, S. M. A.**, I. J. Ila, S. Sarder, M. Shamsujjoha, and M. N. Y. Ali, “An improved approach for detection of diabetic retinopathy using feature importance and machine learning algorithms,” in *Proceedings of the 7th International Conference on Smart Computing & Communications (ICSCC)*, 2019, pp. 1–5.  DOI: 10.1109/ICSCC.2019.8843676.

Skills

- | | |
|-----------|---|
| Languages |  Strong reading, writing and speaking competencies for English, Bengali. |
| Coding |  C#, Python, C++, SQL, L ^A T _E X, ... |
| Databases |  MSSQL, PostgreSQL. |

Skills (continued)

Web Dev	📌	HTML, CSS, JavaScript, .NET, MVC, RESTful APIs
AI/Machine Learning	📌	Data Analysis (Pandas, NumPy, Matplotlib), Python (TensorFlow, PyTorch, scikit-learn), Deep Learning (CNN, RNN, LSTM, Hybrid), Reinforcement Learning (Q-Learning, DQN, A3C), Time Series Modeling (ARIMA, LSTM, Prophet), Predictive Analytics, Generative Adversarial Networks (GANs), Model Interpretability (SHAP, LIME, Explainable AI)
Specialized Skills	📌	Feature Engineering, Hyperparameter Tuning (GridSearch, NAS), Overfitting Analysis, Model Optimization, Cross-Validation, Regularization Techniques (L1, L2), Performance Metrics (ROC, AUC, Precision-Recall)
Misc.	📌	Academic research, training, \LaTeX typesetting and publishing.

Employment History

2024 –	📌	Research Associate , Gwangju Institute of Science and Technology (GIST), South Korea.
2023 – 2024	📌	Researcher . HT Core Co., Ltd., Gwangju 61452, South Korea.
2020 – 2021	📌	Software Engineer . Technology and Business Solutions Ltd., Dhaka, Bangladesh.

Miscellaneous Experience

Awards and Achievements

2021 – 2023	📌	BK21 Fellow and Fully Funded Research Scholarship (KRW 21,068,000) , Brain Korea 21 (BK21) Program, National Research Foundation of Korea, Ministry of Education, South Korea.
2021–2022	📌	Top 15% Excellent Student Scholarship (KRW 4,950,000) , Chosun University, Gwangju, South Korea.
2019	📌	Travel Grant for ICSCC2019 (USD 750) , East West University, Dhaka, Bangladesh.

Certification

2022	📌	IELTS Overall 7.0 . Listening: 7.5, Reading: 6.5, Writing: 6.0, Speaking: 7.0
	📌	Duolingo Overall 125 . Production: 125, Literacy: 130, Comprehension: 125, Conversation: 110.

References

Available on Request