

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, L ^A T _E X 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) , <i>Brain Korea 21 (BK21) Program</i> , 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