# Md Rezwane Sadik

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## Research Interests

Machine learning, Deep Learning, Image Processing, Natural Language Processing, Large Language Models

## Education

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|---|---|
| 2021–2022 | **M.Sc.**, Business Analytics, University of South Dakota, *CGPA-4.0* |
| 2019–2021 | **M.B.A**, Marketing, University of Dhaka *CGPA-3.13* |
| 2011–2014 | **B.Sc.**, Electrical and Electronics Engineering, Islamic University of Technology *CGPA-3.43* |

## Professional Experiences

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|---|---|
| Aug 2023 – Present | **Data Manager**, Department of Education, State of South Dakota |
| May 2023 – Jul 2023 | **Data Analyst**, Center for Teaching & Learning, University of South Dakota |
| Jan 2023 – May 2023 | **Adjunct Lecturer**, Beacom School of Business, University of South Dakota |
| Aug 2021 – Dec 2022 | **Graduate Research Assistant**, Beacom School of Business, University of South Dakota |
| Jan 2021 – Jul 2021 | **Business Analyst**, Millennium Information Solution Limited, Dhaka, Bangladesh |
| Nov 2020 – Mar 2021 | **Data Analyst-Intern**, (iDE), Dhaka, Bangladesh |
| May 2017 – Jan 2019 | **Quality Assurance Engineer**, (LG), Dhaka, Bangladesh |
| Jan 2016 – Apr 2017 | **Assistant Engineer- R&D**, (Walton Group), Dhaka, Bangladesh |
| Mar 2015 – Dec 2015 | **Planning Engineer**, (Confidence Group), Dhaka, Bangladesh |

## Publications

## Journals

[1] Islam, T., Sheakh, M.A., **Sadik, M.R.**, Tahosin, M.S., Foysal, M.M.R., Ferdush, J. and Begum, M., (2024) Lexicon and Deep Learning-Based Approaches in Sentiment Analysis on Short Texts. Journal of Computer and Communications, 12(1), pp.11-34.DOI: 10.4236/jcc.2024.121002

[2] Roy, U., Tahosin, M., Hassan, M.M., Islam, T., Imtiaz, F., **Sadik, M.R.**, Maleh, Y., Sulaiman, R.B. and Talukder, M.S.H., (2024) Enhancing Bangla Fake News Detection Using Bidirectional Gated Recurrent Units and Deep Learning Techniques. arXiv preprint: arXiv.2404.01345

## Conferences

[1] **Sadik, M.R.**, Himu, U.H., Uddin, I.I., Abubakkar, M., Karim, F., & Borna, Y.A., (2025). Aspect-Based Sentiment Analysis of Amazon Product Reviews Using Machine Learning Models and Hybrid Feature Engineering. *2025 International Conference on New Trends In Computing Sciences (ICTCS)*, Amman, Jordan. DOI: 10.1109/ICTCS65341.2025.10989462.

[2] **Sadik, M.R.**, Rana, M.M., Akter, L., Islam, R., Rahman, M.H. and Rahman, M.M., (2024). Supervised Machine Learning Approaches to Identify the False and True News from Social Media Data. *2024 International Conference on Social and Sustainable Innovations in Technology and Engineering (SASI-ITE)*, Tadepalligudem, India, pp. 15-20. DOI: 10.1109/SASI-ITE58663.2024.00011.

[3] **Sadik, M.R.**, Sony, R.I., Maruf, A.A., Rana, M.M., Islam, M.S., & Fahim, S.H., (2024). Computer Vision Based Bangla Sign Language Recognition Using Transfer Learning. *2024 Second International Conference on Data Science and Information System (ICDSIS)*, Hassan, India, pp. 1-7. DOI: 10.1109/ICDSIS61070.2024.10594269.

[4] Sakib, M., Sheakh, M.A., Tahosin, **Sadik, M.R.**, Islam, M.A., & Akter, L., (2024) Accurate Thyroid Disease Detection with Ensemble Learning Models. *2024 4th International Conference on Artificial Intelligence and Signal Processing (AISP)*, VIJAYAWADA, India, pp. 1-6, DOI: 10.1109/AISP61711.2024.10870726.

[5] Ullah, M.A., Mim, A.S., Hasan, M.N. and **Sadik, M.R.**, (2024). Deep Learning Based Forecasting Models of Dengue Outbreak in Bangladesh: Comparative Analysis of LSTM, RNN, and GRU Models Using Multivariate Variables with a Two-Decade Dataset. *2024 International Conference on Smart Systems for Applications in Electrical Sciences (ICSSES)*, pp. 1-6. DOI: 10.1109/ICSSES62373.2024.10561382.

[6] Hossain, S., Prova, N.N.I., **Sadik, M.R.** and Al Maruf, A., (2024). Enhancing Crop Management: Ensemble Machine Learning for Real-Time Crop Recommendation System from Sensor Data. *2024 International Conference on Smart Systems for Applications in Electrical Sciences (ICSSES)*, pp. 1-6. IEEE. Available at SSRN: ssrn.com/abstract=4817360.

[7] Islam, T., **Sadik, M.R.**, Islam, M.F.R., Mona, T.R., Rahman, T. and Foysal, M.M.R., (2023). Early-Stage Diabetes Risk Prediction Using Supervised Machine Learning Algorithms. *2023 2nd International Conference on Futuristic Technologies (INCOFT)*, pp. 1-7. IEEE. DOI: 10.1109/INCOFT60753.2023.10425305.

[8] Sheakh, M.A., Islam, T., **Sadik, M.R.** and Rana, M.M., (2023). Machine Learning Approach Analysis for Early-Stage Liver Disease Prediction in the Context of Bangladesh and India. *World Conference on Information Systems for Business Management (ISBM 2023)*. Lecture Notes in Networks and Systems, vol. 834, pp. 293-304. Springer, Singapore. DOI: 10.1007/978-981-99-8349-0_23.

# Book chapters

[1] Jackson, S.C., **Sadik, M.R.**, (2023). Implied Communality Deficit and Heroism. In Encyclopedia of Heroism Studies. Springer, Cham. DOI: 978-3-031-17125-3_303-1

# Honours, Awards, and Scholarships

2023 **Beta Gamma Sigma Honor Society**, Recognition of academic excellence and achievements
2022 **Leonard E. Arnaud memorial Award & Scholarship**, Leadership, & extracurricular achievements
2020 **Personal-Level Professional Presentability**, certificate from GREC for teaching and helping students
2014 **2nd Runner-up**, in Business Case Study competition at Esonance - 2014.