

# MD SAKIB ULLAH SOURAV

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Montreal, Canada

## EDUCATION

- **Doctor of Philosophy in Information and Systems Engineering**, Concordia University, Montreal, Canada. Sept. 2023 - Present
- **Master of Science in Management Science & Engineering**, Shandong University of Finance & Economics (SDUFE), China. Sept. 2020 – June 2023
- **Bachelor of Science in Electrical & Electronic Engineering**, East West University, Bangladesh. May 2013 – Jan. 2018

## RESEARCH, INDUSTRY, LEADERSHIP & TEACHING EXPERIENCE

- **Graduate Research Assistant** (areas of research- NLP, design creativity, deep learning, Image processing), Concordia University, Montreal, Canada. (Sep. 2023 - Present)
- **Graduate Research Student** (areas of research- computational intelligence, computer vision, decision making), SDUFE, China. (Sep. 2020 - June 2023)
- **Trainer and Research Collaborator** (mentoring students in developing research ideas, supervising research processes and writings and collaborating projects with others), STEMresearch.ai, United Kingdom. (2022 - present)
- **Assistant Engineer** (Substation Design), Shakti Engineering Ltd Dhaka (2018 - 2019)
- **Foreign Faculty (Science and Music)**, Delhi Public School India (Jul 2018 - Oct 2018)  
(Awarded by AIESEC, UN sustainable development goal project)
- **Guitar player & Instructor**, Sakib's Guitar School (2006 – Present)  
(With 18 years+ experience in guitar playing, an approach teaching guitars for the beginners, especially for kids)

## PUBLICATIONS (PUBLISHED & PRE-PRINTS)

### Artificial Intelligence

- **Sourav, M.S.U.**, Wang, H. Intelligent Identification of Jute Pests Based on Transfer Learning and Deep Convolutional Neural Networks. *Neural Process Lett* (2022). <https://doi.org/10.1007/s11063-022-10978-4> (IF= 2.6)
- **Sourav, M.S.U.**, Wang, H., Chowdhury, M.R. and Bin Sulaiman, R. (2023), "CNN (Convolution Neural Network) Based Intelligent Streetlight Management Using Smart CCTV Camera and Semantic Segmentation", Dadwal, S.S., Jahankhani, H., Bowen, G. and Nawaz, I.Y. (Ed.) *Technology and Talent Strategies for Sustainable Smart Cities*, Emerald Publishing Limited, Bingley, pp. 229-246. <https://doi.org/10.1108/978-1-83753-022-920231011>
- Wang H, **Sourav MSU**, Yang M and Zhang J (2023) Classifying mental disorders through clinicians' subjective approach based on three-way decisions. *Front. Psychol.* 14:1144826. doi: 10.3389/fpsyg.2023.1144826
- Talukder, Md Simul Hasan, MR Choudhury, **Sourav MSU**,... et al. "JutePestDetect: An intelligent approach for jute pest identification using fine-tuned transfer learning." *Smart Agricultural Technology* 5 (2023): <https://doi.org/10.1016/j.atech.2023.100279>
- Islam M., Shuvo SA, Nipun MS, Bin Sulaiman R, Shaikh M M, Nayeem J, Haque Z, **Sourav MSU**, Ameer K. (2023). Efficient approach of using CNN based pretrained model in Bangla handwritten digit recognition. In: Smys, S., Tavares, J.M.R.S., Shi, F. (eds) *Computational Vision and Bio-Inspired Computing. Advances in Intelligent Systems and Computing*, vol 1439. Springer, Singapore. [https://doi.org/10.1007/978-981-19-9819-5\\_50](https://doi.org/10.1007/978-981-19-9819-5_50)
- Chowdhury, M.R., **Sourav, M.S.U.** and Sulaiman, R.B. (2023), "The Role of Digital Agriculture in Transforming Rural Areas Into Smart Villages", Dadwal, S.S., Jahankhani, H., Bowen, G. and Nawaz, I.Y. (Ed.) *Technology and Talent Strategies for Sustainable Smart Cities*, Emerald Publishing Limited, Bingley, pp. 57-78. <https://doi.org/10.1108/978-1-83753-022-920231003>
- **M. S. U. Sourav** and H. Wang, "Transformer-based Text Classification on Unified Bangla Multi-class Emotion Corpus," *Language Resources and Evaluation*, 2023, <https://doi.org/10.48550/arXiv.2210.06405> (*Pre-print, in-review*)
- Lu Wang, H.Wang and **M. S. U Sourav**, "A multi-center k-means clustering framework," First National Workshop on Big Data and Machine Learning, CUET, Chattogram, Bangladesh, 2020 (*Oral presentation*)

## Mental Health

- **M. S. U. Sourav**, X. Zhang and H. Wang, "Social Media as Information Support in Reducing COVID – 19 Depressions: Self-Efficacy as Mediator for Behavioral Modeling," 2021 11th International Conference on Intelligent Control and Information Processing (ICICIP), 2021, pp. 82-87, doi: 10.1109/ICICIP53388.2021.9642194 [Presentation video](#)

## Engineering Education

- **S. U. Sourav** et al., "Exploring Engineering Education in Bangladesh, Hong Kong, Singapore, and Switzerland: An International Perspective," 2022 IEEE International Conference on Teaching, Assessment and Learning for Engineering (TALE), Hung Hom, Hong Kong, 2022, pp. 740-743, doi: 10.1109/TALE54877.2022.00132.
- **Sourav, M. S. U., & Diordieva, C., & Galhotra, R., & Asif Iqbal, S. M.** (2023, June), Board 120: A Study of the Bangladeshi Engineering Students' Perceptions to Succeed Academically Paper presented at 2023 ASEE Annual Conference & Exposition, Baltimore , Maryland. <https://peer.asee.org/42421>

## IoT

- **M. S. U. Sourav**, MS Mahmud, Chowdhury, M.R., Sulaiman, R.B , A Yasin "IoMT-Blockchain-based Secured Remote Patient Monitoring for Neuro-Stimulation Devices", AI for Intelligent Computing: Future Trends and Application (CRC Press), 2023 (*In press*)
- A. T. M. M. M. Chowdhury, J. Sultana and **M. S. U. Sourav**, "IoT-based Efficient Streetlight Controlling, Monitoring and Real-time Error Detection System for Smart Cities in Bangladesh," 2023 International Conference on Electrical, Computer and Communication Engineering (ECCE), Chittagong, Bangladesh, 2023, pp. 1-6, doi: 10.1109/ECCE57851.2023.10101600.

## AWARDS & GRANTS

- **Gina Cody School of Engg. and Comp. Sci. Graduate Scholarship**, Concordia University Canada (2023)
- **IFSPD Presidential Fellow (Class of 2022)** for research output in science and engineering (2022)
- **First Prize**, the 5th "Kunpeng Cup", Shandong New Kinetic Energy Software Innovation and Entrepreneurship Competition by Shandong Provincial government, China (2021)
- **Awardee, PEIYOU Scholarship 2020 (First Class)**, from SDUFE for Excellent International Students (2020)
- **Best Group Award (undergrad thesis defense)**, East West University (EWU), Bangladesh (2017)
- **Merit Scholarship (tuition waiver)** – given on university entrance exam, EWU, Bangladesh (2013)

## SKILLS

*Computer skills:* Python, Vue JS, C, Matlab, Dart, HTML, CSS, Kotlin

*Language skills:* Duolingo English Test-125/160 and HSK 3 (Chinese)

## TRAININGS

- **Quebec Scientific Entrepreneurship (QcSE)**, V1 Studio, Montreal, Canada (2024)
- **Strategic Public Communication Training**, Concordia University (2024)
- **English for Career Development** from OPEN MOOC 2022 (2022)
- **Learning Python** from LinkedIn Learning (2021)
- **CCNA** from East West University Electronic Club (2018)
- **Web Development** from ICT Ministry, Bangladesh (2017)
- **AutoCAD 2D & 3D** from East West University Science Club (2016)
- **Digital Marketing** (48 hrs) from BITM (2015)

## VOLUNTEERING

- Scientific reviewer, Reputed Journals and Conferences (reviewed 15+ research papers) (2021- Present)
- Feature writer & Executive member at BCYSA (*education and research*) (2021- 2023)
- Organizer (*tech events*), student member, Youth Voice of Bangladesh (2016-2019)
- Performer, organizer (*workshops and others*), IEEE East West University Branch, Bangladesh (2014-2018)
- Organizer, member (*workshops and others*), East West University Electronic Club (2013-2018)

- Elementary music teacher (slum dwelling children), Prothom Surjro, Dhaka

(2015-2016)

## **MEMBERSHIP**

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- *Executive member (2022-23)*, Bangladesh-China Youth Student Association (BCYSA)
- *Member (International section)*, American Society for Engineering Education (ASEE)
- *Associate member (A-20045)*, Institute of Engineers', Bangladesh
- *Student member (ID 45760)*, Production and Operations Management Society (POMS)

## **RECOMMENDATIONS**

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Can be provided upon request