

Badhan Chandra Das

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🔗 ResearchGate: www.researchgate.net/profile/Badhan-Chandra-Das

Education

◆ Doctor of Philosophy

Aug. 2022 – Present

Major: Computer Science.

CGPA: 3.96/4.00

Knight Foundation School of Computing and Information Science (KFSCIS).

Institution: Florida International University.

Ph.D. Co-major Advisors: **Dr. M. Hadi Amini, Dr. Yanzhao Wu**

◆ Master of Science

2018-19

Major: Computer Science and Engineering.

CGPA: 3.80/4.00

Institution: Jahangirnagar University, Savar, Dhaka, Bangladesh.

◆ Bachelor of Science

2014-17

Major: Computer Science and Engineering.

CGPA: 3.50/4.00

Institution: Jahangirnagar University, Savar, Dhaka, Bangladesh.

Experience

Research Experience

✓ Graduate Research Assistant (solid lab, FIU)

Aug. 2022 - Present

- Privacy-preserving machine learning, AI security, and its applications.

- Analyzing the privacy and security challenges in LLM and their mitigation.

- Developing AI-based efficient threat detection methods in videos in crowded places (supported by DHS SENTRY).

- Preparing the final technical documentation for AI-based video anomaly detection (supported by DHS CINA).

- Developing the education materials and assessment method for AI for criminal activity recognition (supported by DHS CINA).

✓ Research Assistant (JU-DM, Jahangirnagar University)

Aug. 2018 - Dec. 2020

- Developing topic-oriented active online local community search method with data mining and NLP techniques (supported by UGC, Bangladesh).

- Developing methods for efficient election prediction from social media data.

Teaching Experience

✓ Florida International University.

Graduate Teaching Assistant, KFSCIS.

✓ Bangladesh University of Business and Technology (BUBT)

Full-time Lecturer, Department of Computer Science and Engineering [On Study-Leave].

Dec. 2020 - July 2022

✓ University of Development Alternative (UODA)

Part-time Lecturer, Department of Computer Science and Engineering.

May 2019 - Aug. 2019

Publications

Journal Papers:

1. **Badhan Chandra Das**, M. Hadi Amini, and Yanzhao Wu. "Security and Privacy Challenges of Large Language Models: A Survey" in ACM Computing Surveys, 2025. (IF: 23.8).
2. Khandaker Mamun Ahmed, **Badhan Chandra Das**, Yasaman Saadati, M. Hadi Amini, "A Comprehensive Review of Artificial Intelligence and Machine Learning Methods for Modern Healthcare Systems", in Distributed Machine Learning and Computing: Theory and Applications (2024).
3. Jubayer Al Mahmud, **Bandhan Chandra Das**, Jungpil Shin, Khan Md Hasib, Rifat Sadik, MF Mridha, "3D Gesture Recognition and Adaptation for Human–Robot Interaction," in IEEE Access, 2022. (IF: 3.47).
4. **Badhan Chandra Das**, Md. Musfique Anwar, Md. Al-Amin Bhuiyan, Iqbal H. Sarker, Salem A. Alyami, and Mohammad Ali Moni. "Attribute Driven Temporal Active Online Community Search", in IEEE Access, 2021. (IF: 3.745).

Conference Papers:

1. **Badhan Chandra Das**, Yanzhao Wu, and M. Hadi Amini. "Accurate and Efficient Two-Stage Gun Detection in Videos" in International Joint Conference on Neural Networks, (IJCNN-2025) [Under Review].
2. **Badhan Chandra Das**, M. Hadi Amini, and Yanzhao Wu. "Privacy Risks Analysis and Mitigation in Federated Learning for Medical Images" in International Conference on Bioinformatics and Biomedicine (BIBM-2023), Acceptance Rate: 19.7%.
3. Md. Mahbubur Rahman, **Badhan Chandra Das**, Al Amin Biswas, and Md. Musfique Anwar. "Predicting Participants' Performance in Programming Contests using Deep Learning Techniques." International Conference on Hybrid Intelligent Systems (HIS-2022).
4. Rafsun Jani, Md. Shariful Islam Shanto, **Badhan Chandra Das**, and Khan Md. Hasib. "Machine learning-based Social Media News Popularity Prediction." International Conference on Hybrid Intelligent Systems (HIS-2022).
5. Md. Jubier Ali, **Badhan Chandra Das**, Suman Saha, Al Amin Biswas and Partha Chakraborty. "A Comparative Study of Machine Learning Algorithms to Detect Cardiovascular Disease with Feature Selection Method", International Conference on Machine Intelligence and Data Science Application (MIDAS-2021).
6. **Badhan Chandra Das**, Md Musfique Anwar, Iqbal H. Sarker. "Reducing Social Media Users' Biases to Predict the Outcome of Australian Federal Election 2019", 7th IEEE Asia-Pacific Conference on Computer Science and Data Engineering (CSDE-2020).
7. **Badhan Chandra Das**, Md. Musfique Anwar, "Attribute Driven Temporal Local Active Online Community Detection", 12th IEEE/ACM International Conference on Advances in Social Network Analysis and Mining (ASONAM 2020), Acceptance Rate: 19.2%.
8. **Badhan Chandra Das**, Md. Musfique Anwar, Md. Al-Amin Bhuiyan. "Query Oriented Temporal Active Community Search", 9th International Conference on Complex Networks and their Applications-2020.
9. **Badhan Chandra Das**, Md Shoaib Ahmed and Md Musfique Anwar, "Query-Oriented Active Community Search", Proceedings of International Joint Conference on Computational Intelligence.
10. **Badhan Chandra Das**, Md. Shoaib Ahmed and Md Musfique Anwar. "Location-based Temporal Sentiment Analysis to Predict Election Outcome.". IEEE International Symposium on Technology and Society (ISTAS-2020), Arizona State University, USA. [Oral Presentation].
11. Md. Shoaib Ahmed, **Badhan Chandra Das** and Md Musfique Anwar. "Attribute-Driven Active Local Community Detection", International Conference on Innovation in Engineering and Technology (ICIET-2018), Dhaka, Bangladesh.
12. **Badhan Chandra Das**, Md. Shoaib Ahmed and Md Musfique Anwar. "Attribute-Driven Active Community Search". 5th International Conference on Networking, Systems and Security (NSysS 2018), Dhaka, Bangladesh. [Poster]

Teaching

✓ Graduate Teaching Assistant, KFSCIS, FIU

- Operating System (Spring 2023, Fall 2023)
- Mentored K-12 teachers on Research Experience for Teachers (RET) program (Summer 2023)
- Introduction to Artificial Intelligence (Spring 2025).

✓ Guest Lectures

- Introduction to Artificial Intelligence (Fall-2023)
- Advanced Topics in Machine Learning (Fall-2024)
- Introduction to Artificial Intelligence (Spring-2025)

✓ Bangladesh University of Business and Technology (BUBT)

- Data Mining Theory and Application (Spring-2021, Summer-2021, Spring-2022, Summer-2022)
- Pattern Recognition (Summer-2022)
- Project Management and Professional Ethics (Summer-2021)
- Object-Oriented Programming with Java (Spring-2021, Summer-2022)
- Advanced Software Development and Project (Spring-2021, Fall-2021, Spring-2022)

✓ University of Development Alternative

- Web Development and Internet Technology. (Summer-2019)
- Numerical Analysis (Summer-2019)

Technical and Programming Skills

- **Programming Language:** Python, C, C++, Java, C#, R.

- **Machine Learning and Data Science:** Pytorch, Tensorflow, Keras, Scikit-learn, Networkx, Pandas, Numpy, Matplotlib, and Seaborn.
- **Database:** Oracle SQL Server, MySQL.
- **Technical Writing and Presentation:** Overleaf (LATEX), Microsoft Office.
- **Graduate-level Courses:** Advanced ML, Data Mining, Operation Research, Advanced Algorithm.

Awards, Grants, and Scholarships

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| 1. Student Travel Grant | <i>Nov. 2023</i> |
| NSF travel grant from International Conference on Bioinformatics and Biomedicine (BIBM-2023) | |
| 2. Conference Travel Grant | <i>Nov. 2023</i> |
| From Graduate and Professional Student Committee (GPSC) at Florida International University. | |
| 3. Student Travel Award | <i>2022-23</i> |
| From Bangladesh Sweden Trust Fund | |
| 5. Developing Country Researcher Award | <i>Dec. 2020</i> |
| At 7 th IEEE Asia-Pacific Conference on Computer Science and Data Engineering (CSDE-2020), Gold Coast, Australia. | |
| 6. Scholarship on Conference Registration | <i>Dec. 2020</i> |
| At IEEE CSDE/i-COSTE 2020 on the basis of research merit. Gold Coast, Australia. | |
| 7. Special Research Grant from University Grants Commissions of Bangladesh (UGC) | <i>2019-20</i> |
| Project Title: Attribute Driven Active Local Community Detection. | |
| 8. Yearly Scholarship Based on Academic Result of Undergraduate Period | |
| For four consecutive years 2014, 2015, 2016, 2017. | |

External Activities and Organization

Peer Reviewer: WWW, IJCAI, IEEE TIFS, IEEE Big Data, ICLR, ICDCS, IEEE CSDE, Springer Journal of Supercomputing, IEEE Access.

- Worked at Jahangirnagar University computer club (JU computer club) as General Secretary from August 2017 to August 2019.

- Organized and hosted several events and workshops introducing CS freshers to different research and industry technologies under the JU computer club.

Memberships.

- ACM Student Member.
- AAAI Student Member.