

# Nushrat Jahan Ria

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## RESEARCH INTEREST

- Human-Computer Interaction, Information Retrieval, Machine Learning, Computer Vision, User Experience, Qualitative Research

## EDUCATION

### Louisiana State University

PhD in Computer Science

Baton Rouge, Louisiana, USA

January 2024 - Present

### Daffodil International University

BSc in Computer Science and Engineering

Savar, Dhaka, Bangladesh

May 2017 - January 2021

## TECHNICAL SKILLS

**Programming Languages:** Python, C, SQL, HTML, JavaScript

**Research Methods:** Surveys, Interviews, Contextual Inquiry, Think-Aloud

**Design Methods:** StoryBoarding, Paper-Sketching, Snappa, Canva.

**Libraries and Tools:** PyTorch, Sklearn, Pandas, Numpy, OpenCV, Tensorflow, NLTK

**ML Architectures:** CNN, Transformers(BERT, LSTM, LLM, VLM)

**Developer Tools:** VS Code, Android Studio, LaTeX, PyCharm, Jupyter Notebook

**Version Control:** Git, Github

## WORK EXPERIENCE

### Graduate Research & Teaching Assistant

Louisiana State University, Louisiana, USA

January 2024 - Present

### Advisor

DIU NLP & ML Research Lab, Dhaka, Bangladesh

September 2020 - Present

### Lecturer

Daffodil International University, Dhaka, Bangladesh

January 2022 - December 2023

### Technical Program Manager

Apurba Technologies Inc., California, USA

June 2021 - December 2021

### Research Assistant

Apurba-DIU R&D Lab, Dhaka, Bangladesh

February 2021 - May 2021

### Student Coordinator

Apurba-DIU R&D Lab, Dhaka, Bangladesh

September 2020 - January 2021

### Researcher

DIU NLP & ML Research Lab, Dhaka, Bangladesh

May 2019 - August 2020

## SELECTED PUBLICATIONS AND PREPRINTS

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- **Nushrat Jahan Ria**, Sharun Akter Khushbu, Mohammad Abu Yousuf, Abu Kaisar Mohammad Masum, Sheikh Abujar, Syed Akhter Hossain, "**Toward an Enhanced Bengali Text classification Using Saint and Common Form**", 11th International Conference on Computing, Communication and Networking Technologies (ICCCNT), IIT Kharagpur, July 1-3, 2020. [Link](#)
- **Nushrat Jahan Ria**, Jannatul Ferdous Ani, Mirajul Islam, Abu Kaisar Mohammad Masum and Sheikh Abujar, "**NPABT: Naming Pattern Analysis of Bengali Text to Detect Various Community Using Machine Learning Approach**", 12th International Conference on Computing, Communication and Networking Technologies (ICCCNT), IIT Kharagpur, July 6-8, 2021. [Link](#)
- Abu Kaisar Mohammad Masum, Nusrat Badhon, SM Badhon, **Nushrat Jahan Ria**, Sheikh Abujar, Muntaser Mansur Syed, Naveed Mahmud, "**Comparative Evaluation of Transfer Learning for Classification of Brain Tumor Using MRI**", ICMLA 2023: 22nd IEEE International Conference on Machine Learning and Applications, Florida, USA, December 14-16, 2023 (Scopus Indexed). [Link](#)
- Mirajul Islam, **Nushrat Jahan Ria**, Jannatul Ferdous Ani, "**Satellite Imageries for Detection of Bangladesh's Rural and Urban Areas using YOLOv5 and CNN**", Journal of Mobile Information System. Index: Hindawi. [Link](#)
- More will be found [here](#)

## SELECTED AWARDS AND ACHIEVEMENTS

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- Certification in recognition of Scholarly Publication in Reputed Indexed Journal and Conference, by Daffodil International University (2021).
- Certification in recognition of completing three months Deep Learning Bootcamp by DIU NLP & ML Research Lab (2020).
- Certification in recognition of completing six months long Machine Learning Bootcamp by DIU NLP & ML Research Lab (2019).
- Certification in recognition of Excellent Performance in Programming Contest by Daffodil International University (2018).
- Reviewer certification, Natural Language Processing Journal.
- Reviewer certification, Engineering Applications of Artificial Intelligence.
- Reviewer certification, Journal of King Saud University - Computer and Information Sciences.

## EXTRACURRICULAR ACTIVITIES

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- **Participant:** STAQ Quantum Ideas Summer School 2024 at Duke University. [Link](#)
- **Moderator:** LSU Graduate Research Conference 2024 [Link](#)
- **Reviewer:** in Natural Language Processing Journal (Elsevier), Engineering Applications of Artificial Intelligence. (Elsevier, Impact Factor: 7.8), Journal of King Saud University: Computer and Information Sciences. (Elsevier, Impact Factor: 3.829)
- **Organizing Secretary:** 1st International Conference on Natural Language Processing and Applications (ICNLPA 2022), International Conference on Computing and Green Technology (ICCGT - 2021) University of Évora, Portugal.
- **Organizer:** Modern Science and Intelligent System (MSIS Press), 5th National Girls' Programming Contest 2021. (NGPC 2021), 4th National Girls' Programming Contest 2019.
- **Technical Committee:** 3rd National Girls' Programming Contest (NGPC 2018), International Computer Programming Contest (ICPC 2018), Dhaka Regional.
- **Supervisor:** Computational Intelligence Lab.
- **Research Advisor:** DIU NLP and Machine Learning Lab.
- **Trainer:** "Workshop on Blockchain" organized by Deshi Intelligence, November 2020.
- **President:** Daffodil International University Girls' Computer Programming Club (DIU GCPC), January 2020 to December 2020.
- **Vice President (ACM Wing):** Daffodil International University Girls' Computer Programming Club (DIU GCPC), January 2019 to December 2019.

## INVITED TALKS

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- Recent Research Trends and Higher Studies Opportunities organised by DIU Girls' Computer Programming Club, November 2024.
- Research for Academia & Industry organized by PetaAI Solutions, November 2021.
- Research Talk on A to Z of International Conferences & Journals organized by Daffodil International University, November 2020.
- Project “SheCodes” finale Special guest organized by BDOSN, September 2020.