

FARIA NISHAT KHAN

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EDUCATION

2021	Bachelor of Science	Computer Science and Engineering	3.74 (on a scale of 4.00)	Daffodil International University	Dhaka, Bangladesh
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RESEARCH INTEREST

1. Health Informatics	2. Natural Language Processing	3. Machine Learning	4. Artificial Intelligence
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PEER-REVIEWED PUBLICATIONS

1. Md Umaid Hasan, **Faria Nishat Khan**, Hasnur Jahan, Zahura Zaman, Md Mizanur Rahman “**Predicting Pancreatic Cancer Survival and Staging: A Machine Learning Approach**” IEEE CONFERENCE ON COMPUTING APPLICATIONS AND SYSTEMS (COMPAS 2024), Chattogram, Bangladesh.
 - Implementation (Data Curation and Formal Analysis)
 - Lead Author (Manuscript composition and Final Paper Preparation)
 - Co-Presenter
2. Zahura Zaman, Mahadi Hassan Meraz, Sanzida Siddike, **Faria Nishat Khan**, Md Umaid Hasan, Md Mizanur Rahman “**Classifying CCTV Image for Road Accident Analysis Using Deep Learning Techniques**” IEEE CONFERENCE ON COMPUTING APPLICATIONS AND SYSTEMS (COMPAS 2024), Chattogram, Bangladesh.
 - Implementation (Methodology and Formal Analysis)
 - Quality Control (Data and Accuracy Validation)
 - Co-Presenter
3. **Faria Nishat Khan**, Syed Rakesh Uddin, Yasir Arafat Shampod and Abdus Sattar, "The Impact of Corona Pandemic on the E-Commerce Industry Using Data Mining" 2021 5th International Conference on Computing Methodologies and Communication (ICCMC), Erode, India, 2021, pp. 1755-1761, doi: 10.1109/ICCMC51019.2021.9418369.
 - Implementation (Data Collection, Curation, Methodology and Formal Analysis)
 - Lead Author (Manuscript composition and Final Paper Preparation)
 - Lead Presenter

RESEARCH PROJECTS (IN PROGRESS)

1. A comparative study of NLP in Healthcare <ul style="list-style-type: none">– A review paper on How NLP is improving Healthcare.	Principal Investigator
2. Melanoma Skin Cancer Detection using Deep Learning with Web Application <ul style="list-style-type: none">– Using integrated Deep Learning models, such as DenseNet201, DenseNet169, ResNet50V2, and ResNet50V2 to detect Melanoma Skin Cancer from Image	Principal Investigator
3. Prediction Of Stress Level Based On Physical Activity Using Machine Learning <ul style="list-style-type: none">– Using Tree Based ML models to identify relation between Stress and Physical Activity	Implementer
4. Parkinson's Disease Detection from PPMI Dataset <ul style="list-style-type: none">– Detection Of Parkinson's Disease Stage From Parkinson's Progression Marker.	Principal Investigator

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| 5. Diabetic Retinopathy Detection from Image Dataset | Principal Investigator |
| – Detecting Diabetic Retinopathy From Medical Image(Retina) Using Computer Vision. | |

CONFERENCE PRESENTATIONS

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| 1. Predicting Pancreatic Cancer Survival and Staging: A Machine Learning Approach | Chattogram, Bangladesh | September 26, 2024 |
| 2. Classifying CCTV Image for Road Accident Analysis Using Deep Learning Techniques | Chattogram, Bangladesh | September 26, 2024 |
| 3. The Impact of Corona Pandemic on the E-Commerce Industry Using Data Mining | Erode, India | April 8, 2021 |

ENGLISH PROFICIENCY - IELTS (Academic)

Overall: 8.0	Listening: 8.5	Reading: 8.0	Writing: 7.0	Speaking: 7.5
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PROFESSIONAL EXPERIENCE

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| 1. January 2022 - Present | Lecturer | Daffodil International University | Dhaka, Bangladesh |
| <ul style="list-style-type: none"> Developed and delivered undergraduate lectures in different courses. Such as, <ul style="list-style-type: none"> Data Structures Data Mining and Machine Learning Programming and Problem Solving Introduction to Biology and Chemistry for Computation Utilized innovative teaching methods like gamified learning, flipped classrooms, and student-centric approaches to boost engagement and comprehension. Advised students and alumnae on academic and career matters, fostering a supportive learning environment. Supervised 13 final-year students in Final Year Design Project(FYDP), offering research guidance and support. Designed course materials as a Module Leader, ensuring alignment with Course Outcomes (CO) and Program Outcomes (PO). | | | |
| 2. February 2021 - December 2021 | Teaching Assistant And Teaching Apprentice Fellow | Daffodil International University | Dhaka, Bangladesh |
| <ul style="list-style-type: none"> Supported lecture development and delivery, enhancing course effectiveness. Applied innovative teaching methods to boost student engagement. Provided academic guidance and emotional support to students. | | | |
| 3. January 2019 - December 2020 | Student Prefect (Volunteering TA position) | Daffodil International University | Dhaka, Bangladesh |
| <ul style="list-style-type: none"> Assisted the course teacher in organizing and managing course delivery materials. Supported students during lab sessions, providing hands-on guidance. Provided academic support to students after class hours. | | | |

PROFESSIONAL SERVICE ACTIVITIES

LEADERSHIP EXPERIENCE

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| ■ Convener, DIU Girls Computer Programming Club (GCPC) | July 2023 - Present |
| ■ Wing Advisor, DIU Girls Computer Programming Club (GCPC) | February 2023 - July 2023 |
| ■ Coach, Teaching Apprentice Fellowship, Human Resource Development Institute, Daffodil International University | January 2022 - December 2022 |

CONFERENCE/CONTEST/OLYMPIAD ORGANIZING COMMITTEE MEMBER

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| ■ ICPC Asia Regional Dhaka Site - 2024 (forthcoming) | November 2024 |
| ■ 4th International Robo Tech Olympiad 2024 | October 2024 |
| ■ 2nd International Conference on Big Data, IoT and Machine Learning (BIM 2023) | September 2023 |
| ■ National Girls' Programming Contest 2022 - (NGPC 2022) | February 2023 |

LAB AFFILIATION

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| ■ DIU NLP AND ML Research Lab | July 2023 - Present |
| ■ DIU Health Informatics Research Lab (HIRL) | January 2024 - Present |

EXTRACURRICULAR ACTIVITIES

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| ■ Organized 20 seminars, 10 workshops, 8 contests and 1 olympiad - Documentation | 2023 - Present |
| ■ Instructor, International Online University (IOU) - Instructor Profile | 2021 - Present |
| ■ Educational Content Creator, YouTube | 2021 - Present |
| ■ Program organizer and online program anchor, “ For Teachers - শিক্ষকদের জন্য” organized by Human resource Management Institute (HRDI). | 2021 - 2022 |
| ■ Participated in over 200 extracurricular events - Documentation | 2007 - Present |

RELEVANT PROFESSIONAL DEVELOPMENT ACTIVITIES

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| ■ AI-Driven Key Opportunities for Academia & Industry: Agriculture and Healthcare | 2024 |
| ■ Decoding High-Impact Journal Publication Success: The Editorial Perspective from Manuscript to Masterpiece | 2024 |
| ■ Welcome to the CSE Frontier: Faculty Insights and Cutting-Edge Research | 2024 |
| ■ Teaching, Research, and Service in the Contemporary World | 2024 |
| ■ AI-Enhanced Teacher Training Program | 2023 |
| ■ Fourth Industrial Summit on “Empowering Workforce for the Fourth Industrial Revolution (4IR): A case study for Employment in Bangladesh | 2023 |
| ■ Teacher Training on "Making Interactive Video Lessons and Creating an Online Course" | 2022 |
| ■ Workshop on "Digital Citizenship" | 2022 |
| ■ Personal & Professional Development – Low-Cost Classroom Material Design | 2021 |