

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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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 |
| 5. Diabetic Retinopathy Detection from Image Dataset <ul style="list-style-type: none">– Detecting Diabetic Retinopathy From Medical Image(Retina) Using Computer Vision. | Principal Investigator |

CONFERENCE PRESENTATIONS

- | Conference Title | Location | Date |
|---|------------------------|--------------------|
| 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	Listening	Reading	Writing	Speaking
8.0	8.5	8.0	7.0	7.5

PROFESSIONAL EXPERIENCE

- | Date | Position | Institution | Location |
|--|---|-----------------------------------|-------------------|
| 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 StructuresData Mining and Machine LearningProgramming and Problem SolvingIntroduction to Biology and Chemistry for ComputationUtilized 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

- | Activity | Duration |
|--|------------------------------|
| 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 |