

MEHRIN ANANNYA

Institute of Information Technology, ◇ Jahangirnagar University (JU), Dhaka, Bangladesh

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EDUCATION

Jahangirnagar University M.Sc. in Information Technology CGPA: 3.92/4.0 (Position: 2 nd) Thesis: Performance Measurement Model of Mobile User Connectivity in Femtocell/Macrocell Networks using Fractional Frequency Re-use Scheme	Dhaka, Bangladesh Apr 2016
Jahangirnagar University B.Sc. in Information Technology CGPA: 3.75/4.0 (Position: 6 th) Project: Automated CV Processing along with Psychometric Analysis in Job Recruiting Process	Dhaka, Bangladesh Dec 2014

RESEARCH INTERESTS

human centered AI, machine learning, software engineering, natural language processing, data mining, software & cyber security

TEACHING EXPERIENCES

Assistant Professor <i>Institute of Information Technology, Jahangirnagar University</i>	Nov 2023 - Present Dhaka, Bangladesh
Taught courses: Object-Oriented Software Engineering, Database Management Systems, Algorithm Analysis Supervised Thesis: <ul style="list-style-type: none">Unified Bangla: A Cross-Dialectal Translation System for Regional Dialects of Bangladesh.SDLC Model Selection through NLP-Based Requirement Analysis	
Lecturer <i>Institute of Information Technology, Jahangirnagar University</i>	Feb 2021 - Nov 2023 Dhaka, Bangladesh
Taught courses: Human Computer Interaction, Object Oriented Programming, Software Engineering, Internet and Web Technology, Multimedia Systems and its Applications Supervised Project: A Deep Learning Approach for Sentiment Analysis in Bangla Product Reviews	
Lecturer <i>Information and Communication Technology, Bangladesh University of Professionals</i>	Jul 2016 - Jul 2019 Dhaka, Bangladesh
Taught courses: Software Engineering, Database Management Systems, Data Structure & Algorithm, C Programming	

RELATED PROFESSIONAL EXPERIENCE

Junior Software Engineer (Java Developer) <i>Genweb2 Ltd.</i>	May 2015-Jul 2016 Dhaka, Bangladesh
Projects: Foreign Aid Management System (FAMS), Booking Management Software (Katair)	

PUBLICATIONS

Published

- An Intelligent Assistive System for Autistic Learners, Wiley [Journal]
- Federated XAI IDS: An explainable and safeguarding privacy approach to detect intrusion combining federated learning and SHAP, MDPI [Journal]
- Image captioning in Bengali language using visual attention, PLOS One [Journal]
- Impact, Causation and Prediction of Socio-Academic and Economic Factors in Exam-centric Student Evaluation Measures using Machine Learning and Causal Analysis, IEEE [Conference]

- **Securing Networks: A Deep Learning Approach with Explainable AI (XAI) and Federated Learning for Intrusion Detection**, Springer [Conference]
- **Eligible Personal Loan Applicant Selection using Federated Machine Learning Algorithm**, SAI [Journal]
- **Machine learning and internet of things in industry 4.0: A review**, Elsevier [Journal]
- **Quality Analysis of PATHAO Ride-Sharing Service in Bangladesh**, Springer [Book Chapter]
- **Performance Measurement Model of Mobile User Connectivity in Femtocell/Macrocell Networks using Fractional Frequency Re-use Scheme**, SAI [Journal]
- **Automated CV Processing along with Psychometric Analysis in Job Recruiting Process**, IEEE [Conference]

Accepted

- **Explainable AI Based Multi-Class Pneumonia Classification and Anomaly Detection from Chest X-ray**, IEEE [Conference]
- **Hybrid Approach towards Multi-Label Semi-Supervised Emotion Classification**, IEEE [Conference]

Under Review

- **Unifying Regional Dialects of Bangladesh: A PRISMA 2020-based Systematic Literature Review on NLP and ML Research**, ACM [Journal]
- **SDLC Model Selection through NLP-Based Requirement Analysis**, Springer [Journal]
- **A Systematic Literature Review To Predict Software Defects From Code Smells Using Machine And Deep Learning Techniques**, IEEE [Journal]

SCHOLARSHIPS

Jahangirnagar University | Earned merit-based scholarships each semester from Jahangirnagar University

Bangladesh Government | Received government scholarship to have training in Java Web-App in India (Position-1st)

TRAINING

Java (Infosys Ltd.) | Internship on Java Web based Application (Mysore, Bangalore, India)

Android (Datasoft Systems Ltd.) | Internship on Android (Industrial Attachment) (Bangladesh)

TECHNICAL SKILLS

Programming Language	Java, C, C++ , Python, R
Backend Framework	J2EE, Spring Web MVC, Thymeleaf, Struts, JSF, NodeJS
Database	Oracle, MySQL, MongoDB, H2, SQLite, ORM - JPA, Hibernate, MyBatis, iBatis
Python (ML & DL Libraries)	NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow, PyTorch, Keras
NLP	Hugging Face, Tokenizer, lemmatization, sentiment analysis, BERT

EXTRA CURRICULAR ACTIVITIES

- Ex-Moderator, BUP InfoTech Club (Organized National Programming Contest, BUP) (as a Teacher)
I played a leadership role to organize the club activities and arrange various key programs.
- Coach, programming teams in Bangladesh University of Professionals (as a Teacher)
- Member, Bangladesh Computer Society
- Anchor, 2nd International Conference on Electrical Engineering and Information & Communication Technology (as a student), National Programming Contest BUP and Different programs organized in current department (as a Teacher)
- Ex-Executive of Viqarunnisa Noon College Science Club
I led the graphics section of the VNSC Science Club (as a Student).
- Secured 2nd position in disk throwing in college (Viqarunnisa Noon School & College)'s yearly game competition.