

Atia Binti Aziz

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EDUCATION

- BRAC University, M.sc. in CSE** 06/2024 – present
Dhaka, Bangladesh
- Completed 15 credits of course-work (3rd trimester running)
 - Current CGPA: 3.94
- International Islamic University Chittagong, B.Sc. in CSE** 04/2017 – 03/2022
Chattogram, Bangladesh
- CGPA: 3.902 out of 4 (Batch Highest)

PROFESSIONAL EXPERIENCE

- International Islamic University Chittagong,, Adjunct Lecturer, Dept. of CSE** 07/2022 – 06/2023
Chattogram, Bangladesh
- Applied diverse teaching methods, like lectures and interactive activities, to deliver engaging content
 - Created assessments aligned with learning objectives to promote academic growth
 - Mentored a student who earned the MEXT scholarship, showcasing effective
 - Guided a student team to win a university web development contest, emphasizing
 - Designed course curriculums based on department input, trends, and standards
 - Graded assignments with constructive feedback to support student development
 - Compiled reports to evaluate teaching effectiveness and highlight areas for improvement
- BroTech IT, Intern (Front End)** 11/2020 – 01/2021
Remote, Bangladesh
- Proficient in HTML, CSS, JavaScript, and Bootstrap, with experience creating a portfolio website, personal blog, and e-commerce front-end
 - Improved the company's website by adding new sections and design enhancements
- International Islamic University Chittagong,, Teaching Assistant, Dept of CSE** 09/2019 – 03/2020
Chattogram, Bangladesh
- Provided faculties with regular, detailed feedback on student achievement, progress, and challenges
 - Monitored student engagement and offered tailored support, boosting academic performance
 - Prepared learning resources and equipment per faculty guidelines
 - Organized and supervised tests, invigilated exams, and marked student work
 - Offered individualized support and guidance to meet student needs

SKILLS

Research Methods: Dataset labeling | Data preprocessing | Feature engineering | Model training and evaluation | Accuracy analysis | Data visualization

Language: Python | C | C++ | Java

ML Libraries: Scikit-Learn | Pandas | Matplotlib | NumPy | Seaborn | Keras | Statsmodels | Prophet | Streamlit | Gradio

ML Models: SVM | Linear Regression | Logistic Regression | Naive Bayes | Random Forest | KNN | HMM






Database Managment: MySQL | Oracle | MongoDB

Operating System: Windows | MacOS



Scripting: HTML | CSS | LaTeX | Markdown | JSON

Miscellaneous Tools/ Software: Git (VCS) | OpenRefine | Jupyter Notebook | LabelIMG | Roboflow | Android Studio | Figma | Xcode | VsCode | MatLab | CST | MS Office | Proteus | DVS

PROJECTS

MediBot 	12/2024
Developed a medical symptoms detection chatbot using Clinical BERT and NLP; GRADIO was used for GUI.	
Anomaly Detection in Fintech 	09/2024
Implemented classification models for detecting anomalies in fintech systems by using transaction data; streamlit GUI was integrated for better visualization.	
NIPS ML Papers Analysis 	08/2024
Assessed machine learning research trends in NIPS conference papers from 1987 to 2017, using NLP and data visualization to identify key topics and track the field's evolution over 30 years.	
Clustering and Analysis of U.S. Traffic Accident Patterns 	06/2024
Evaluated traffic accident data across various U.S. states to identify patterns and inform potential policy interventions. The analysis includes data exploration, correlation analysis, dimensionality reduction with PCA, and clustering using KMeans.	
Time-series Forecasting: Statsmodels vs Prophet 	11/2023
Developed time series forecasting models using statsmodels and Prophet to analyze trends, seasonality, and make data-driven future predictions.	

PUBLICATIONS

Yolo-V4 Based Detection of Varied Hand Gestures in Heterogeneous Settings , Atia Binti Aziz, Nanziba Basnin, Mohammad Farshid, Mohoshena Akhter, Tanjim Mahmud, Karl Andersson, Mohammad Shahadat Hossain & M. Shamim Kaiser. 	08/2024
<ul style="list-style-type: none">• Published in: Applied Intelligence & Informatics'23 (Springer Nature Switzerland)• Dataset: Author generated dataset, Data preprocessing: OpenCV, Model: YOLO-V4, Analysis: Hand Gesture Detection, Computer Vision	
IoMT-based Android Application for Monitoring COVID-19 Patients Using Real-Time Data. , Mohammad Farshid, Atia Binti Aziz, Nanziba Basnin, Mohoshena Akhter, Karl Andersson & Mohammad Shahadat Hossain 	08/2023
<ul style="list-style-type: none">• Published in: Proceedings of the Fourth International Conference on Trends in Computational and Cognitive Engineering. Lecture Notes in Networks and Systems, vol 618. Springer, Singapore• Data from: Wearable sensors, Method: 4 Layer IoMT, Android app alerts, Accuracy: 80-90% for pulse, oxygen, Analysis: Monitoring system	

AWARDS

Vice-Chancellor's Gold Medal Award , International Islamic University Chittagong 5th Convocation For outstanding academic performance	11/09/2022
1st Runner-Up (Girls' Mobile App Development Contest 2021) , BdOSN & Robi Designed and implemented a safety app named NIRAPOTTA for female to avoid unwanted situations while they're outside. It is built on Android Studio and Java.	28/04/2021
Champion (Debate Competition) , District Council Chattogram	21/03/2015

LANGUAGES

English IELTS Score: 7.5	Bangla Native
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