

PERSONAL INFORMATION



Riadul Islam Rabbi

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Sex Male | Date of birth 06.06.1998 | Nationality Bangladeshi

STUDIES APPLIED FOR

Research Intern

EDUCATION AND TRAINING

(09.09.2017 - 18.10.2022)

BSc in Computer Science and Engineering

International Islamic University Chittagong (IIUC), (Chittagong, Bangladesh)

- Earned 163 Credits including electives in "Machine Learning and Data Mining", "Pattern Recognition and Image Processing", and "Neural Network and Fuzzy System".
- [Undergraduate Thesis](#): Mechanical Ventilation Pressure Prediction Using Machine Learning Algorithms.
- [CGPA: 3.696 on a scale of 4.](#)

WORK EXPERIENCE

(16.07.2022 - Current)

University Teaching Assistant

International Islamic University Chittagong (Chittagong, Bangladesh, www.iiuc.ac.bd/)

- Assisted teachers and supervised students in machine learning and data mining sessional tasks.
- Monitored assessments of the students and evaluated final machine learning projects.

(10.01.2022 - 10.04.2022)

Health Data Analytics Internship

BUET e-SRD Lab, Dhaka, Bangladesh

- Hands-on experience with actual health data and completing one research group project.
- Learned multidimensional data modeling (e.g. star schema, snowflake) and online analytical processing.
- Gained self-organizational skills, teamwork, and communication skills.

PUBLICATIONS

Book Chapter

- Chapter 2: Introduction to Medical Imaging Informatics (**Accepted**, American Journal Information Science and Technology, Impact Factor: 4.45)

Ongoing Research

- A Machine Learning Approach to Predict Hypertension: A Case Study in Chittagong Region.
- Colorectal Cancer Molecular Subtypes Identification from Gene Expression Data Approach with Multi-clustering Using Deep Neural Network.

RESEARCH EXPERIENCE

(15.12.2021 - 04.05.2022)

Undergrad Final Year Thesis

- Background studies covered existing mechanical ventilation and their prices are very high.
- Designed a methodology and implemented different machine learning algorithms.
- Exhibited and validated the models for pressure prediction of mechanical ventilation at every given time step.
- Compared and analyzed the model with different metrics.
- Its manuscript is **under review** by the reviewer for publishing in a peer-reviewed journal.

RESEARCH SKILLS

LABORATORY WORK

- Programming Languages: **Python, Javascript, HTML**, and **CSS**.
- Qualitative and Quantitative Data Analysis: **R, SPSS**, and **Excel**.
- Machine learning and Deep Learning frameworks & libraries: **Sci-Kit Learn, Tensorflow, Keras, Numpy, Pandas, Matplotlib, Ggplot2**, and **ETL**.
- ERD Design and Databases: **MySQL, MongoDB**, and **PostgreSQL**.
- Applications and Services: **Weka, Tableau, PowerBI, Git**, and **Latex**.

FIELD-WORK

- Bringing together data from many sources and utilizing both offline and online resources to support research work.
- Completed two days of industrial workshop and achieved software industry knowledge from experts.
- Basic Knowledge of communication skills and user feedback surveying.

CO-CURRICULAR EXPERIENCE

- 07.2022- Current **Assistant Research Coordinator** (IIUC Data Science Research Group)
- Arranged research seminars two times a month.
 - Presented research methodology and data science applications.
 - Encouraged to do research in cutting-edge technology with a research fellow.
- 02.2023-Current **Assistant Director** (Career Development | Univ | Dhaka, Bangladesh)
- Outline and implement a series of activities for young scholars and students.
 - Host seminars, webinars, and workshops with academy and industry leaders.
- 24.07.2023 **Hands-on Latex Workshop** (Research and Development Unit | Univ, Dhaka)
- In collaboration with Teach for Univ Intern students.
 - Contributed one hour to this workshop on how to write scientific papers using Latex.
- ICISSET- 2018 **International Conference Participation** (International Islamic University Chittagong)
- Participating in International scientific conferences to learn research.
 - Attending different seminars like Machine Learning and Computer Vision.
- Conference 2021 **Big Data, IoT, Machine Learning** (International Conference, Cox's Bazar | Bangladesh)
- Participating in scientific conferences to get different research papers.
 - Joining various seminars and tutorial sessions.

ADDITIONAL INFORMATION

- Presentations**
- Crop Yield Prediction Using Bi-Directional LSTM-CNN: A Perspective in Bangladesh (IEEE Computer Society).
- Honour & Award**
- Academic honor for academic performance at IIUC.
 - Undergrad thesis was in the top 10 out of 65 projects/theses for 2022 at IIUC.
 - Turkiye Diyanet Foundation Scholarship from IIUC to complete the Undergraduate degree.
- Courses**
- Google Data Analytics Professional (Coursera).
 - Machine Learning & Deep Learning Bootcamp (<https://aiplanet.com>).
 - Data Analysis with SPSS ([Asi@connect, Bdren](mailto:Asi@connect.Bdren)).
- Certifications**
- Google Data Analytics Professional Certificate.
 - Machine Learning Bootcamp Certification (Ranked 4th in Data Telling Story).
 - Web Application Development-DotNet Certificate.
- Memberships**
- Executive Member | Ass. Research Coordinator IIUC Data Science Group | **2022-Present**
 - Executive Board Member – Assistant Director (Career Development) | **UniV.BD | 2023 - Present**

REFERENCES

Dr. Mohammad Jamshed Alam Patwary
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and Engineering (IIUC).
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