

ZANNATUL FERDOUSEE

+ (880) 1632-834455 ◇ Dhaka, Bangladesh

✉ methela1603060@gmail.com ◇ [LinkedIn](#) ◇ [Google Scholar](#)

ACADEMIC CREDENTIALS

Bachelor of Science in Computer Science and Engineering

Rajshahi University of Engineering and Technology (RUET)

Final year GPA: **3.35** out of 4.0; CGPA: **3.03** out of 4.00

2017–2022

Rajshahi, Bangladesh

Higher Secondary School Certificate

Rajuk Uttara Model College

GPA: **5.00** out of 5.00

2014–2016

Dhaka, Bangladesh

FIELDS OF INTEREST

Machine Learning, Deep Learning, Computer Vision, Bioinformatics, Digital Signal Processing

RESEARCH EXPERIENCE

Undergraduate Thesis:

Focused on breast cancer detection using VGG-19 and ResNet-50 models, achieving over 98% accuracy with mammographic images. This research involved image preprocessing, feature extraction, and performance evaluation using metrics such as accuracy, recall, and F1-score. The results were published at [\[ICCIT 2023\]](#). [📄](#)

PUBLICATIONS

- **Zannatul Ferdousee***, Md Rakibul Haque “[Integrating Feature Selection and Extraction with Tuned Multilayer Perceptrons for Predicting Student Dropout Risk in Higher Education](#)”. In 2024 2nd International Conference on Information and Communication Technology (ICICT 2024)(**Accepted**)
- **Zannatul Ferdousee***, S M Shovan, MD Sharifujjaman “[Propionylation characterization ensembling classifiers on varied features](#)”. In 2023 26th International Conference on Computer and Information Technology (ICCIT 2023), **DOI**:10.1109/ICCIT60459.2023.10441189
- MD Sharifujjaman*, **Zannatul Ferdousee**, Nahin UI Sadad, Boshir Ahmed “[Transfer Learning Based Approaches for Breast Cancer Classification using Mammogram Images](#)”. In 2023 26th International Conference on Computer and Information Technology (ICCIT 2023), **DOI**:10.1109/ICCIT60459.2023.10441637
- Morseda Siddiqua*, **Zannatul Ferdousee** “[Deep Transfer Learning Based Approaches for Classification of Chest CT Scans: Normal, COVID-19, and Pneumonia](#).” 6th International Conference on Electrical Engineering and Information & Communication Technology (ICEEICT), **DOI**:10.1109/ICEEICT62016.2024.10534572

WORK EXPERIENCE

Research Assistant

Leaf Technologies

Supervised by Krishna Ray, Chief Technology Officer

Feb'2023 – Apr'2024

Dhaka, Bangladesh

- Worked on Computer Vision, Machine Learning models, Signal Processing, and Web Development.
- Used Audacity audio editor and recorder for signal processing tasks scripted in Python. Also developed web applications using Flask.

PROJECTS

- Created the RUET Alumni website using HTML and CSS.
- 4-bit mini ALU design on breadboard
- Developed “Hotels in Rajshahi,” an app for listing hotels and booking based on availability.

ACADEMIC ACHIEVEMENTS

- **Technical Scholarship** (2017–2022)
Awarded for academic excellence in the Entrance Exam from the Faculty of CSE at RUET
- **Secondary School Certificate Scholarship** (2014–2017)
Awarded for outstanding performance in the SSC examination. Dhaka Education Board
- **Primary School Scholarship** (2009–2013)
Awarded for outstanding academic performance in primary education. Dhaka Education Board

ONLINE CERTIFICATION

- **Python** – Kaggle [!\[\]\(31b03e46ee8a80a1f1467b8c03bd76e8_img.jpg\)](#)
- **Pandas** – Kaggle [!\[\]\(7d9665ff04f9d2270c38081c6215a724_img.jpg\)](#)
- **Introduction to Machine Learning** – Kaggle [!\[\]\(7cea648fec4dfc1e99934873e9173b69_img.jpg\)](#)
- **Supervised Machine Learning: Regression and Classification** – Coursera [!\[\]\(48ceb66414885cacc3f139b4fa359213_img.jpg\)](#)

MAJOR COURSES

Database Systems	Data Structure
Computer Architecture and Design	Compiler Design
Artificial Intelligence	Neural Networks and Fuzzy Systems
Digital Image Processing	Computer Graphics and Animations
Object Oriented Programming	Digital Signal Processing

TECHNICAL SKILLS

Languages	C, C++, Python,
ML Frameworks	PyTorch, TensorFlow, Keras, Scikit-learn
ML Tools	OpenCV, NumPy, Pandas, Matplotlib
Databases	MySQL
Software & Tools	LaTeX, MS Office

TEST SCORES

IELTS:	Overall Band Score 7.0 (Reading: 7, Listening: 7, Speaking: 7, Writing: 6)
GRE:	Verbal 144, Quantitative 158, Analytical Writing 3.0

EXTRA-CURRICULAR ACTIVITIES

- **Leadership:** Class Representative, Dept of CSE, RUET 2017-2020
Acted as a liaison between students and faculty, coordinating exams and representing the CSE department
- Executive Member, RUET Career Forum (RCF) 2018-2021
- Science Fair and English Language Club, VNSC 2012-2014
- Science Fair, RUMC 2014-2016

REFERENCES

Dr. Md. Shahid Uz Zaman

Professor

Department of Computer Science and Engineering,
Rajshahi University of Engineering and Technology
Email: szaman22.ruet@gmail.com

Prof. Dr. Md. Al Mamun

Professor

Department of Computer Science and Engineering,
Rajshahi University of Engineering and Technology
Email: almamun00350@gmail.com