

# ZANNATUL FERDOUSEE

+ (880) 1632-834455 ◇ Dhaka, Bangladesh

✉ [methela1603060@gmail.com](mailto: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

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- **Technical Scholarship** (2017–2022)  
Awarded for academic excellence in the Entrance Exam from the Faculty of CSE at RUET 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

## MAJOR COURSES

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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

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

## TEST SCORES

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

## EXTRA-CURRICULAR ACTIVITIES

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

## REFERENCES

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**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