

# MD. ROBIUL ISLAM

House No. 11/B, Borobag, Mirpur-2  
Dhaka-1216, Bangladesh

**Contact:** +8801718775623  
**Email:** [robiuleeepust@gmail.com](mailto:robiuleeepust@gmail.com)  
[LinkedIn](#) [GitHub](#)

## RESEARCH INTEREST

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1) Machine Learning 2) Deep Learning 3) NLP 4) Computer Vision & Image Processing

## EDUCATION

**BSc in Engineering:** Electrical & Electronic Engineering 2014-2019  
Pabna University of Science & Technology, Pabna, Bangladesh.  
CGPA: 2.96 out of 4.00 (Last 60 Credit CGPA 3.04 out of 4.00)

## TEST SCORES

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**GRE:** Overall: 307, Quant: 159, Verbal: 148, AWA: 3.5 March 11, 2021- March 11, 2025  
**TOEFL:** Overall: 82, Speaking: 22, Writing: 24, Reading: 21, Listening 15 Oct 29, 2022- Oct 29, 2024

## RESEARCH EXPERIENCE

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1) Undergrad Research 2018-2019

**Thesis Title:** “Fault Analysis of Transmission Line for Power System Using MATLAB Simulation.”

**Methodology:** Built the Simulation of Subsystem by MATLAB Simulink Library Browser. Finally developed the MATLAB Simulink of Transmission line network for fault analysis.

**Result:** Fault Voltages & fault Currents can be minimized by 3-5% by this MATLAB Simulink Scope Browser.

2) Another paper on machine learning is ready to submit for publication namely “Bearing Fault Diagnosis by Varying Principle Components for Multilevel Support Vector Machine and Naïve Bayes with Different Cross-validation Methods.”

3) Working on a deep learning paper using U-NET model in PyTorch for image segmentation and paper titled “Optical (Diabetic Retinopathy-DR) Image Segmentation: Exploring and Comparing Various Techniques.”

4) Working on another paper for Bangla Spam E-mail detection using Deep Learning.

5) I just started on a new paper with another team on ChatGPT vs. Bard: A Comparative Study

## SKILLS & EXPERTISE

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- **Programming Languages:** Python, C, C++, MATLAB, HTML, CSS
- **Machine Learning:** Linear Regression, Logistic Regression, Decision Trees, NB, KNN, K-means Clustering, RF, SVM, EMD, ANN, PCA. Data cleaning, time-series analysis, and data visualization.
- **Deep Learning:** CNN, RNN, LSTM, U-NET, Transfer learning.
- **Optimization:** PCA, PSO, GA, DT.
- **Frameworks:** Pandas, NumPy, Keras, and Tensorflow libraries.
- **Tools:** Excel, PowerPoint, Word, AutoCAD 2D, CircuitLab, Simulink.
- Leadership, Outstanding organizational, Communication, Technical, Multitasking, Teamwork, and problem-solving skills.

## INTERNSHIP

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Intern at Raj Lanka 52.2 MW Power Company Limited (RLPCL), Natore, Bangladesh Nov 2018- Jan 2019

### Responsibilities:

- Testing electrical components for resistance to identify defects or damage.
- Participating in the design of new electrical equipment such as power plants, transmission lines, or communication systems.

- Working with engineers to design, construct, test, and troubleshoot new electrical products or systems.

## MACHINE LEARNING PROJECTS

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- 1) A Project on future price prediction of Bitcoin using Python & Machine Learning.
- 2) A project of application of Machine Learning in Parkinson's Disease Prediction.
- 3) The Project for Air Quality Prediction using Machine Learning Techniques.
- 4) A project on Blood Donation Analysis in Python using Logistic Regression, SVM, Random Forest, Decision Tree, and MLP

## CERTIFICATIONS

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|---|-------------------------|
| 1) Python for Data Science, AI & Development by IBM   | December 2022 - Present |
| 2) Supervised Machine Learning: Regression and Classification by DeepLearning.AI & Stanford University.           | January 2023 - Present  |
| 3) Unsupervised Learning, Recommenders, Reinforcement Learning by DeepLearning.AI & Stanford University.          | February 2023 - Present |
| 4) Mathematics for Machine Learning: Linear Algebra by Imperial College London.                                   | February 2023 - Present |
| 5) Calculus for Machine Learning and Data Science by DeepLearning.AI  | February 2023 - Present |
| 6) Advanced Learning Algorithms by DeepLearning.AI & Stanford University  | February 2023 - Present |
| 7) Probability & Statistics for Machine Learning & Data Science by DeepLearning.AI                                | March 23-Present        |
| 8) Introduction to Deep Learning by University of Colorado Boulder  | February 2023 - Present |
| 9) Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning by DeepLearning.AI | March 2023-Present      |
| 10) Natural Language Processing in TensorFlow by DeepLearning.AI  | March 2023-Present      |
| 11) Introduction to Computer Vision and Image Processing by IBM   | March 2023-Present      |

## TEACHING EXPERIENCE

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| Lecturer   | 2021-Present   |
| GSK Coaching Center, Mirpur-2, Dhaka, Bangladesh |  |
| Course Taken:                                    |  |
| ▪ Higher Mathematics                             | - Integration, Differentiation, Matrix, Statistics, Probability, Geometry, Trigonometry, Permutation, Combination, and Complex Number. |
| ▪ Physics  | -Thermodynamics, Electrical Circuit, Optics, Semiconductor & Electronics, Information & Communication Technology.                      |

## AWARDS & SCHOLARSHIPS

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| 1) Recipient of Prime Bank Foundation Meritorious Scholarship for outstanding results in Higher Secondary School Certificate (HSC). I secured a GPA of 5.00 out of 5.00. | Jan 2013- Jan 2019   |
| 2) Recipient of Dutch-Bangla Bank Scholarship for outstanding results in Secondary School Certificate (SSC). I secured a GPA of 5.00 out of 5.00.                        | June 2010- June 2012 |
| 3) Recipient of Junior School Government Scholarship in the Talent pool category throughout Secondary School Life. (First position in my region.)                        | Feb 2008- Feb 2010   |

## PROFESSIONAL AFFILIATIONS

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| 1) Associate Member, IEEE, Pabna University of Science & Technology (PUST), Student Branch, Bangladesh. | 2018-2019 |
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## EXTRACURRICULAR ACTIVITIES

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| 1) Math Olympiad Runner-up at the District level throughout the College Period. | 2011         |
| 2) Founder, Science & Technology Club, Pushpapara Kamil Madrasa.                | 2019-Present |