

Md Rumman Shahriar

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Research Interests: Natural Language Processing, Machine Learning, Image Processing, Computer Vision

OBJECTIVE

Computer Science graduate with a strong foundation in data analysis and machine learning, eager to apply analytical and technical skills to support customer life cycle management initiatives. Passionate about continuous learning and motivated by challenges, with the drive to transform data insights into practical strategies that enhance customer engagement and business value at bKash.

EXPERIENCE

Student Tutor <i>BRAC University</i>	Oct. 2024 – May 2025 <i>Dhaka, Bangladesh</i>
<ul style="list-style-type: none">Assisted students in understanding fundamental programming concepts in CSE110: Programming Language IConducted one-on-one and group tutoring sessions to improve problem-solving and coding skillsProvided guidance on assessments, debugging techniques, and optimal code writing	

EDUCATION

Bachelor of Science in Computer Science BRAC University, Dhaka	CGPA: 3.96/4.00 2021 – 2025
Higher Secondary Certificate (HSC) Notre Dame College, Dhaka	GPA: 5.00/5.00 2020
Secondary School Certificate (SSC) Adarsha School, Narayanganj	GPA: 5.00/5.00 2018

ACADEMIC PROJECTS

Hospital Management System	Oct. 2024 – Feb. 2025
<ul style="list-style-type: none">Domain: Web Application Development Tools: Flask, MySQL, HTML, CSS, Figma, VercelDesigned and developed a web application for managing patients, doctors, appointments, and billingImplemented backend with Flask and MySQL, and deployed frontend on VercelEnsured responsive design and user-friendly UI with HTML, CSS, and Figma prototypesLinks: GitHub Documentation	
An Efficient Deep Learning Model for Bangla Handwritten Digit Recognition	Apr. 2025 – Jun. 2025
<ul style="list-style-type: none">Domain: Computer Vision Tools: Python, TensorFlow/Keras, CNNBuilt and trained a CNN for classifying Bangla handwritten digitsAchieved high accuracy using data preprocessing and hyperparameter tuningLinks: GitHub Paper	
Breast Ultrasound Image Segmentation & Classification	Jan. 2025 – Jul. 2025
<ul style="list-style-type: none">Domain: Medical Imaging Tools: Python, TensorFlow/Keras, U-NetApplied U-Net architecture for segmentation of breast ultrasound imagesPerformed classification to differentiate benign and malignant tumorsLinks: GitHub Architecture	
Tumor Detection for Potential Breast Cancer Using ML	Oct. 2024 – Dec. 2024
<ul style="list-style-type: none">Domain: Pattern Recognition Tools: Python, Machine LearningImplemented ML models for early detection of breast cancer tumorsBuilt awareness through predictive analytics and visualizationLinks: GitHub Paper	

Comparative Analysis of Early Kidney Disease Detection Using ML Models Jan. 2024 – Mar. 2024

- **Domain:** Healthcare Analytics **Tools:** Python, Scikit-learn, SVM, Random Forest, KNN, DNN
- Conducted a comparative study of ML models for chronic kidney disease detection
- Evaluated models based on accuracy, precision, recall, and F1-score
- **Links:** [GitHub](#) | [YouTube](#) | [Paper](#)

Alien Shooter Game Apr. 2024 – Jun. 2024

- **Domain:** Game Development **Tools:** Python, OpenGL, GLUT
- Developed a 2D space shooter game with alien enemies, power-ups, and life management
- Implemented dynamic projectile mechanics, collision detection, and multiple power-ups
- Designed interactive UI elements and smooth gameplay using OpenGL graphics primitives
- **Links:** [GitHub](#) | [Game Manual](#)

TECHNICAL SKILLS

Microsoft Office & Productivity: Microsoft Excel, PowerPoint, Microsoft Word, Slack

Languages: Python, Java, MySQL

Web Development: HTML, CSS, Bootstrap, PHP, MySQL, Flask

Artificial Intelligence & Machine Learning: Scikit-learn, Pandas, NumPy, Matplotlib

Neural Networks & Deep Learning: Python, TensorFlow, Keras

Computer Vision: Convolutional Neural Networks (CNNs), U-Net, Image Processing

Natural Language Processing: NLTK, Text Classification, Language Modeling, Tokenization, Parsing

Other Tools: Git, GitHub, VS Code, LaTeX

HONORS & AWARDS

Vice Chancellor's List

For outstanding academic performance at BRAC University.

Dean's List

For obtaining a CGPA above 3.9 in 10 semesters at BRAC University.

Merit-Based Scholarship

Received 75-100% waiver on tuition fees at BRAC University.

Dhaka Board General Scholarship (SSC)

Scholarship awarded for outstanding performance in the Bangladesh Secondary School Certificate examination.

Dhaka Board Talent Pool Scholarship (JSC)

Scholarship awarded for outstanding performance in the Bangladesh Junior School Certificate examination.

COMPETITIONS & ACHIEVEMENTS

Executive Member (HR Department), Notre Dame College Eco and Space Club	2018 – 2020
Successfully organized National Space Fest 2.0 , catering to approximately 4,000 participants.	

School Attendance System Project	2017 – 2018
Won Second Prize in the Digital Udbhaboni Mela for developing the project.	

National Science Fair	2016 – 2017
Secured Second Place in the Narayanganj region, competing against 24 teams.	