

# Rahul Reza Roky

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## EDUCATION

### Rajshahi University of Engineering and Technology

B.Sc. Eng in CSE

CGPA: 3.23 / 4.0

### Dhaka City College

GPA: 5.00 / 5.00

Rajshahi, Bangladesh

Feb. 2018 – Aug. 2023

Dhaka

May 2015 – July 2017

## WORK EXPERIENCE

### Young Learners Research Lab [Certificate]

Research Engineer

Rajshahi, Bangladesh

Aug. 2021 – Aug. 2023

- ★ Created BHSGR-Net, a lightweight CNN for Bengali sign language recognition. Furthermore I Design, implement and evaluate new models and rapid software prototypes to solve problems in machine learning.
- ★ Attained remarkable 100% accuracy in BdSL recognition using just 10 features via mediapipe and ensemble of SVM & RFE with extra-trees classifier.

## PROJECTS

Ruet Cse Lab

- **Bangla Hand Sign Language Recognition** | Googles Media-Pipe Hand, SVM, Tensorflow
- **Abstract Data Type Implementations** | C, C++, OOP
- **Implementation of Movie Recommender System** | Python, Pandas, Scikit-learn
- **CPU Design** | LOGICIM

## Programming Profile

Analytical Programming Lab

- Data Structures and Algorithm : 500+ Problem Solve. [Link]
- Competitive Programming Profile : **CodeForces** , **CodeChef** , **LeetCode**

## TECHNICAL SKILLS

**Languages:** C, C++, Python, MySQL

**Front-End Technologies:** HTML5, CSS3, JavaScript, React Js

**Familiar:** PHP, Assembly, Matlab, Latex

**Frameworks:** TensorFlow, MediaPipe, LightGBM

**Developer Tools:** Git, Google Colab, Visual Studio, Sublime Text, PyCharm

**Libraries:** Pandas, NumPy, Matplotlib

## PUBLICATIONS

1. BHSGR-Net: A Light-Weight Convolutional Neural Architecture for Recognition of Bengali Hand Sign Gestures. [International Conference on Big Data, IoT and Machine Learning(BIM 2023)]
2. A Novel Ensemble of Recursive Feature Elimination and Support Vector Machine for Bengali Sign Language Numerals Recognition. [Thesis]
3. Empowering the Deaf Community: A Vision-Based Method for Understanding Bangla Sign Language Numerals. [In Review]

## CERTIFICATIONS AND AWARDS

### Online and Onsite

- Top 5 at RUET Intra University Programming Contest. [Certificate]
- Machine Learning, Stanford University, Coursera. [Certificate]
- Introduction to Machine Learning, Kaggle. [Certificate]
- Runner-Up at CSE Carrom Tournament, RUET. [Certificate]
- Champion at Intra College Carrom Tournament, DCC.