

# Raiyan Zannat

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## Education

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**M.Sc. in Computer Science and Engineering** *October 2025 – Present*

*Rajshahi University of Engineering and Technology (RUET)*

- **CGPA:** 4.0/4.0 (until first semester)
- **Coursework:** Advanced Machine Learning, Deep Learning Combinatorial Optimization, Arithmetic Analysis

**B.Sc. in Computer Science and Engineering** *Jan 2020 – August 2025*

*Rajshahi University of Engineering and Technology (RUET)*

- **CGPA:** 3.66/4.0
- **Coursework:** Computer Architecture, Comparison of Learning Algorithms, Computational Theory

**Higher Secondary School Certificate (H.S.C)** *Mar 2013 – June 2019*

*Joypurhat Girls' Cadet College (JGCC)*

- **GPA:** 5.00/5.00

**Secondary School Certificate (S.S.C)** *Mar 2013 – June 2019*

*Joypurhat Girls' Cadet College (JGCC)*

- **GPA:** 5.00/5.00

## Notable Curricular and Extra Co-Curricular Activities

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**Bangladesh Scouts:** Here are some of the notable mentions of my whole Scout Journey:

### International

- Participant of 2nd National Scout Jamboree Organized by Nepal Scouts from 10th to 15th April 2013 at Tikauli Chitwan.

### National

- Participant of 7th National Cub Camporee held at the National Scout Training Centre, Mouchak, Gazipur from 08-14 February, 2011.
- Participant of 11th Railway Regional Scout Rally and 4th Rover Moot-2012 held at the Shahid Shajahan field, Pahartali, Chittagong from 19-24 December, 2012.
- Participant of 9th Bangladesh and 1st SAANSO Scout Jamboree held at National Scout Training Centre, Mouchak, Gazipur, Bangladesh from 04-11 April, 2014.

## Awards and Achievements

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**National Undergraduate Math Olympiad (2022):** Divisional level **Champion** and secured **7th place** in National level.

**Spelling Bee Bangladesh:** I have been a consistent participant of Spelling Bee every seasons and won prizes every time.

- Secured Regional Round Winner title (2012, 2014, 2015) and participated in Divisional Round (2012, 2014, 2015)
- Advanced to TV Round (2014, 2015), showcasing strong competitive performance.
- Earned recognition as one of the Top 96 Spellers in Bangladesh.

**Bangladesh Math Olympiad (2012):** Regional Level **Champion** in Primary Category and participant of National level.

**Board Scholarship:** Talentpool scholarship in Higher Secondary School Certificate, Secondary School Certificate and General scholarship in Junior School Certificate from Rajshahi Education Board, Rajshahi.

## Research Experience

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### Undergraduate Thesis [↗](#)

**Title:** A Deep-Learning Based Approach for Region Classification and Translation of Bangla Regional Dialects to Standard Bangla

**Supervisor:** Mohiuddin Nirob, Assistant Professor, Department of Computer Science and Engineering, RUET

- Leveraged the Vashantor dataset as the primary resource for training and evaluating the models on regional Bangla dialects.
- Implemented Google mT5 and csebuetnlp Bangla T5 models to perform translation of regional dialects into standard Bangla with high accuracy.
- Applied Bangla-BERT, Distil-BERT, m-BERT, and XLM-RoBERTa models for robust classification of Bangla regional dialects, ensuring precise identification.

## Skills

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**Language:** C, C++, Python, Javascript

**Front-end expertise:** Next.js, HTML, CSS,

**Back-end expertise:** Express.js, MongoDB, Better-Auth

**UI/UX:** Figma, Pixxso, Penpot

**Frameworks:** Tailwind, React

**Database:** MySQL, NoSQL

**Others:** Git, Github

## Projects

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### ArenaX: Sports Facility Booking Platform [Live Demo ↗](#)

- Developed a full-stack sports facility booking platform where users can explore and book football turfs, badminton courts, swimming lanes, and other sports venues with real-time scheduling and protected authentication systems.
- Implemented advanced features including Google OAuth authentication, private routes, facility management dashboard, booking management, search and filtering functionality, dark/light theme switching, and responsive UI animations.
- **Tools Used:** Next.js, React.js, Express.js, MongoDB, Tailwind CSS, HeroUI, Better Auth, Framer Motion, JWT

### SkillSphere: Full-Stack E-Learning Platform [Live Demo ↗](#)

- Developed a modern full-stack e-learning platform with Google authentication, course management, protected routes, and responsive dashboard interfaces for seamless learning experiences.
- **Tools Used:** Next.js, React.js, Tailwind CSS, Hero UI, Better Auth, Google Auth, MongoDB

### DigiTools: SaaS Digital Tools Storefront [Live Demo ↗](#)

- Built a SaaS digital tools storefront featuring product browsing, cart management, Context API state handling, and interactive toast notification systems with responsive UI design.
- **Tools Used:** React.js, Tailwind CSS, DaisyUI, Context API, React Toastify

### KeenKeepers: Relationship Tracker Application [Live Demo ↗](#)

- Developed a relationship tracker application to monitor interactions, visualize communication timelines, and maintain meaningful personal connections through interactive dashboard features.
- **Tools Used:** React.js, Tailwind CSS, DaisyUI, React Router, Recharts, React Toastify

### English Janala: Vocabulary Learning Platform [Live Demo ↗](#)

- Created a vocabulary learning platform with structured lessons, searchable vocabulary sections, pronunciation support, and responsive educational interface design.
- **Tools Used:** HTML5, CSS3, Tailwind CSS, DaisyUI

## References

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### **Mohiuddin Ahmed**

Assistant Professor, Department of CSE

Rajshahi University Of Engineering and Technology

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*Relationship: [Thesis Supervisor, Course Teacher]*

### **S. M. Mahedy Hasan**

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*Relationship: [Thesis Supervisor, Course Teacher]*