

# Nivrita Munib

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## Education

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**Shahjalal University of Science and Technology** *March 2022 – Present*  
*BSc in Software Engineering*  
GPA: 3.76/4.0 (up to the 5th Semester)  
**Holy Cross College, Dhaka** *July 2018 – July 2020*

## Skills

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**Languages** — JavaScript, Java, Python, C++  
**Frameworks & Libraries** — Node.js, React, Tailwind CSS, Pandas, NumPy, Matplotlib  
**Tools & Platforms** — MySQL, PostgreSQL, GitHub, VS Code, Jupyter

## Problem Solving

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Solved over 500 problems across platforms such as Codeforces, LeetCode, and HackerRank. Regularly participate in timed contests on Codeforces to improve speed and accuracy. Completed various algorithmic challenges and certification tests on HackerRank, strengthening problem-solving skills in different domains.

## Projects

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**SustKarateClub** [🔗](#) *Live* [🔗](#)  
– Developed the full-stack web application for SUST Karate Club .I worked on both frontend and backend part.  
– Implemented key features including student registration, belt tracking, announcements, class scheduling, secure file uploads, and integrated SSLCommerz payment gateway.

*Tools Used:* React, Express, Node.js, MySQL, Postman, Multer, Cloudinary

**Altera AI** [🔗](#)  
– Developed a full-stack AI SaaS application. Implemented subscription billing system to manage user payments and access control.  
– Developed AI-powered features including text generation, image creation, background/object removal, and resume analysis.

*Tools Used:* PostgreSQL, Express.js, React, Node.js, Tailwind CSS

**ML-Project (Parkinson's Disease Prediction)** [🔗](#) *Live* [🔗](#)  
– Developed a machine learning model for Parkinson's disease detection, including data preprocessing, feature engineering, and model evaluation.

*Tools Used:* Python, HTML, Jupyter Notebook

**Echoes** [🔗](#)  
– Built a second-hand book and stationery marketplace enabling users to buy and sell preloved items, with backend API development and a responsive frontend.

*Tools Used:* React, Express, Node.js, MySQL, Postman, Tailwind CSS

## Competitions and Achievements

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- 2<sup>nd</sup> Runner-up (Innovation & Display) at the 1<sup>st</sup> S.N. BOSE National Science Festival, 2025.
  - Completed training in *Python Programming and Basic Data Science* by EDGE, gaining hands-on experience in data preprocessing, model training, and evaluation.

## Ongoing Thesis

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*Evaluating the Impact of Prompt Variations on Large Language Model Performance for Automated Test Case Generation in Competitive Programming* — Investigating how different prompting strategies influence the ability of Large Language Models (LLMs) to generate effective test cases for Codeforces problems.

## Co-Curricular Activities

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- UNDP Student Ambassador, 2025
  - Speaker and Volunteer , Campus Tech Programs
  - Member, Holy Cross College Science Club