

# Gopal Roy

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## Summary

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I am a second-year Computer Science & Engineering student at BUET with strong interests in Machine Learning, Data Science, and Competitive Programming. I enjoy solving challenging algorithmic problems and continuously improving my skills in C, C++, Java, JavaScript, and Python. Alongside academic projects, I actively explore topics like hashing, graph algorithms, DP, and advanced data structures through hands-on implementations.

I am passionate about learning modern technologies, building efficient systems, and working on meaningful projects. With a growing focus on ML and problem-solving, I aim to contribute to impactful, high-quality engineering and research work, with particular interest in exploring **ML model efficiency, NLP, and data-driven systems research**.

## Education

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### Bangladesh University of Engineering and Technology (BUET)

*Bachelor of Science in Computer Science & Engineering*

2023 – Present

### Chittagong College

*Higher Secondary Certificate (HSC)*

**Result : GPA(5.00)**

2020 – 2022

### Chittagong Collegiate School

*Secondary School Certificate (SSC)*

**Result : GPA(5.00)**

2013 – 2019

## Skills

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**Languages:** C, C++, Java, Python, JavaScript

**Database:** MySQL, PostgreSQL

**FrameWorks:** React.js, Node.js, Express.js, Pandas, NumPy, Scikit-learn

**Tools:** Git, GitHub ,VS Code, Jupyter Notebook, Postman

## Projects

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### Virtual Tourist Guide

*An interactive application that helps users explore destinations, attractions, and plan trips efficiently.*

Tools: IGraphics based on C++ 

### Ipl Player DataBase

*A Java-based IPL player management system with real-time buy/sell features, networking, and multithreading support.*

Tools: Java 

### AfterMart

*An online second-hand marketplace platform enabling secure buying, selling, delivery, and real-time interactions for pre-owned products with role-based management and trusted transactions.*

Tools: React.js, Node.js, Express.js, PostgreSQL, JWT-based secure sessions 

### Know Sylhet

*Know Sylhet is a interactive website featuring all about Sylhet. (Contributed by me)*

Tools: React.js, Node.js, Express.js, ModgoDB 

### Urbanome

*A collaborative project focused on “Data Pathways to Healthy Cities and Human Settlements”, developed for NSAPC 2025, aiming to analyze urban data and provide actionable insights for sustainable, healthy, and efficient city planning.*

Tools: React.js (hooks & context), Express.js (REST APIs), Leaflet.js (maps), Chart.js, Python (data processing). 