

# Mohammad Sadat Hossain

📞 +880-1875-027794    ✉️ sadat@teacher.cse.buet.ac.bd    🌐 sadathossain.me  
🔗 SadatHossain01    📺 SadatHossain01    📍 Dhaka, Bangladesh

## Education

<b>Bangladesh University of Engineering &amp; Technology (BUET)</b> <i>Bachelor of Science in Computer Science and Engineering</i>	<i>Mar 2020 – Mar 2025</i> Dhaka, Bangladesh
<ul style="list-style-type: none"><li>• CGPA: <b>3.99/4.00</b>   Class Rank: <b>2nd out of 120 students</b></li><li>• <b>Dean's List Award</b>   Received in all three academic years awarded (2021–2023)</li><li>• <b>University Merit Scholarship</b>   Achieved in all seven terms attended (2020–2023)</li></ul>	

## Professional Experience

<b>Bangladesh University of Engineering &amp; Technology</b> <i>Lecturer, Dept. of Computer Science and Engineering</i>	<i>Nov 2025 – Present</i> Dhaka, Bangladesh
<ul style="list-style-type: none"><li>• Teaching undergraduate courses in the Department of Computer Science and Engineering</li><li>• Conducting lab sessions and mentoring students in coursework and research projects</li></ul>	
<b>Bangladesh University of Engineering &amp; Technology</b> <i>Adjunct Lecturer, Dept. of Computer Science and Engineering</i>	<i>Apr 2025 – Nov 2025</i> Dhaka, Bangladesh
<ul style="list-style-type: none"><li>• Instructed approximately 360 students across 6 courses including programming and data structures</li><li>• Designed and evaluated assignments, exams, and lab assessments</li></ul>	

## Research

<b>From MSA Transformer to Graph Neural Network: A Deep Learning Approach to Phylogenetics</b> <i>Undergraduate Thesis / Supervisor: Dr. Md. Shamsuzzoha Bayzid</i>
<ul style="list-style-type: none"><li>• Designed novel deep learning architectures combining MSA Transformer and Graph Neural Networks to capture evolutionary relationships from multiple sequence alignments</li><li>• Developed end-to-end pipeline for phylogenetic tree reconstruction with improved accuracy over traditional methods</li></ul>

## Selected Projects

<b>TaskFlow   AI-Powered Task Management Platform</b> <i>Full-Stack Web Application</i>	<i>Feb 2024</i> <a href="#">GitHub</a>   <a href="#">Demo</a>
<ul style="list-style-type: none"><li>• Built comprehensive task planner with AI assistant for intelligent content generation and task suggestions</li><li>• Implemented real-time collaboration features with progress tracking using SvelteKit, Express.js, and PostgreSQL</li></ul>	
<b>ExploreMate   Travel Planning Application</b> <i>Full-Stack Web Application</i>	<i>Oct 2023</i> <a href="#">GitHub</a>   <a href="#">Demo</a>
<ul style="list-style-type: none"><li>• Architected travel suggestion system with intelligent itinerary planning and destination recommendations</li><li>• Designed system using BPMN, ER, UML diagrams; implemented with SvelteKit and Express.js</li></ul>	
<b>Harmony   Academic Social Media Platform</b> <i>Full-Stack Web Application</i>	<i>Sep 2022</i> <a href="#">GitHub</a>
<ul style="list-style-type: none"><li>• Developed real-time learning resource management platform with chat, file sharing, and event management</li><li>• Built with Svelte, TailwindCSS frontend and PostgreSQL with PL/pgSQL for complex database transactions</li></ul>	
<b>Football Club Manager</b> <i>Desktop Application</i>	<i>Jul 2021</i> <a href="#">GitHub</a>   <a href="#">Demo</a>
<ul style="list-style-type: none"><li>• Created JavaFX application with multithreaded socket programming for real-time server-client communication</li><li>• Web scraped and indexed 16,000+ player profiles with searchable database and live player exchange features</li></ul>	

## Technical Skills

Languages	C, C++, Python, Java, JavaScript, TypeScript, Bash, SQL, 8086 Assembly
ML/AI	PyTorch, Scikit-learn, Hugging Face Transformers, vLLM, Computer Vision, NLP
Web Development	SvelteKit, Express.js, Node.js, TailwindCSS, REST APIs
Databases	PostgreSQL, Oracle, PL/pgSQL, Database Design and Optimization
Tools & DevOps	Git, Docker, Linux, LaTeX, Beamer, Wazuh SIEM

## Achievements

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<b>24th Place</b>   ICPC Asia Dhaka Regional Contest (310 teams)	2024
<b>Finalist</b>   Robi Datathon 2024	2024
<b>Champion</b>   Hackathon (DevOps), BUET CSE Fest	2023
<b>15th Place</b>   Inter University Programming Contest, BUET CSE Fest (105 teams)	2023
<b>4th Place</b>   AI Contest, BUET CSE Fest	2022
<b>2nd Runners Up</b>   NASA Space Apps Challenge, Dhaka Region	2021