MST. SULTANA PARVIN KONA

Department of Computer Science & Engineering

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OBJECTIVES

Motivated Computer Science & Engineering undergraduate with a strong interest in Artificial Intelligence, Data Science & Machine Learning, and real-world problem solving. Seeking opportunities to apply technical skills, research mindset, and project experience in a dynamic environment while continuously learning and contributing to impactful and innovative solutions.

EDUCATION

B.Sc. in Computer Science & Engineering
Bangladesh University of Business and Technology (BUBT), Dhaka, Bangladesh
CGPA: 3.85/4.00 (current)
January, 2022- January, 2026

Higher Secondary School Certificate (HSC) | Science Group
Pabna Govt.College , Pabna, Bangladesh
GPA: 5.00/5.00
2018 – 2020

Secondary School Certificate (SSC) | Science Group
Hazera Khatun Girl's High School,Tebunia, Pabna, Bangladesh
GPA: 4.83/5.00
2018

SKILLSET

Programming Languages: C/C++ (Proficient), Python, Java , HTML/CSS, JavaScript, MySQL.

Frameworks & Libraries: Express.js, Bootstrap, OpenCV, NumPy, Pandas, Matplotlib, and PyTorch.

CognitiveAnalytics: Data Structures & Algorithms, CNN,Supervised Learning, Reinforcement Learning, Unsupervised Learning, Deep Learning, Transformers.

Web Application Development: Session Management.

Developer Tools: Git, Jupyter Notebook,VS Code,Android Studio.

Management and Organizations: Project Planning and co-ordination.

PROJECTS

PaperGPT

LLM-based Question Answering for Scholarly Documents, 2025

- Developed an LLM-based Research Paper Q&A system using QASPER + FAISS + RAG.
- Implemented semantic retrieval and chunk-based document indexing.
- Built an interactive chatbot interface using Gradio.

Driver Behavior Analysis

Python, Scikit-learn, 2025

- Developed a machine learning system to analyze driver behavior using safety metrics such as TTC, time headway, and speed difference.
- Applied K-Means clustering and Random Forest to classify drivers and predict behavior types accurately.
- Designed composite risk scores and visualized driver risk patterns using charts for actionable insights.

Tour-Management-System

Full Stack Web Development Project, 2024

- Designed and developed a Tour Management System to facilitate browsing, booking, and managing tour packages for end users, along with a secure admin panel for administrators.
- Built full-stack functionality using PHP, MySQL, HTML, CSS, Bootstrap, and JavaScript, ensuring dynamic package listings, user authentication, enquiry handling, and real-time booking management.
- Implemented secure admin features such as login, password change, and CRUD operations on packages, bookings, and enquiries.
- Delivered a responsive user interface and efficient back-end logic using a classic PHP-MySQL MVC-like pattern.

Food Ordering System

Full Stack Web Development Project, 2024

- Designed and developed a user-friendly Food Ordering System that allows customers to browse menus, place orders, and make secure online payments, along with an admin panel for restaurant management.
- Implemented RESTful APIs and admin panel for menu, order, and user management with optimized performance.
- Used modern web technologies, responsive UI/UX design, and GitHub for version control and team collaboration.

University Management System

Java-Based Application, 2023

- Developed a Java-based University Management System to manage student, faculty, and course records efficiently, improving administrative workflow automation.
- Implemented modular and scalable design with database integration (MySQL), focusing on maintainability, clean architecture, and user-friendly interaction.

Inventory Management System

Java-Based Application, 2023

- Built a Java-based Inventory Management System to manage products, track stock, and create reports, making inventory work easier for small businesses and warehouses.
- Created a simple and organized system with database integration (PostgreSQL/MySQL), added role-based access, low-stock alerts, and CSV import/export for smooth use.

Encryption & Decryption Application

C++ -Based Application, 2022

- Developed a C++ console application to encrypt and decrypt sensitive information using 10 classical and modern ciphers.
- Designed a modular, menu-driven interface for easy user interaction and scalable code structure.
- Focused on maintainability and security, enabling users to safely manage passwords and personal data.

Hotel Management System

C-Based Application, 2022

- Designed a C-based Hotel Management System for handling room availability, customer records, and bill calculation, improving basic hotel operation management.

- Applied structured programming concepts, functions, and file handling to ensure maintainability and clean code design.

ACHIEVEMENTS AND CERTIFICATIONS

Certificate of Achievement – ICPC Asia Dhaka Regional Contest 2021 Certificate
2021 - 2022
Role: Volunteer.
Description: Successfully served as a volunteer in the prestigious international programming contest. Contributed to smooth event execution through active involvement in logistics coordination, participant support, and team collaboration.

Certificate of Achievement – Infinix AI workshop 2025

Infinix AI (in collaboration with Google Cloud) Participated in an AI workshop emphasizing responsible, ethical AI practices and real-world AI awareness.

Certificate of Achievement – Programming Contest 2022

Awarded for participation in the BUBT Intra-University Programming Contest (Junior Division), demonstrating strong algorithmic thinking, coding accuracy, and timely problem-solving skills.

EXTRA-CURRICULAR ACTIVITIES

BUBT IT CLUB

- Actively involved in organizing tech seminars, coding events, and team-based learning initiatives to promote digital innovation on campus.

- Demonstrated team collaboration, leadership, and continuous skill development.

BUBT AI Community

- Actively engaged in organizing AI-focused workshops, seminars, and hands-on learning sessions to foster artificial intelligence awareness and innovation on campus.

- Demonstrated strong team collaboration, leadership, and continuous skill development in machine learning, data science, and emerging AI technologies.

Pabna Science Club

- Engaged as an active member of the Pabna Science Club, contributing to diverse science-focused initiatives and events.

REFERENCES

Md. Saifur Rahman
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