

# MD. HABIBUR RAHMAN

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habib16051

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## ACADEMIC PROFILE

Motivated ICT graduate with a strong foundation in computer science, software engineering, and applied artificial intelligence. Experienced in academic research, undergraduate-level projects, and industry-informed teaching practices. Published researcher with interests in AI, machine learning, and software systems. Aspires to contribute as a university lecturer through effective teaching, student mentoring, and impactful research.

## EDUCATION

B.Sc (Engg.) in Information and Communication Technology (ICT)

Mawlana Bhashani Science & Technology University

CGPA : 3.43 out of 4.00 Santosh, Tangail-1902

Higher Secondary Certificate (HSC)

Brahmanbaria Govt. College

GPA : 4.80 out of 5.00 Brahmanbaria

Secondary School Certificate (SSC)

Ramrail D.N Datta High School

GPA : 4.88 out of 5.00 Brahmanbaria

## PROFESSIONAL EXPERIENCE

Software Engineer TechnoNext

Dhaka, Bangladesh Nov, 2023 - Dec, 2025

- Build VPN Management System to make the vpn access easily gettable for all the employee.
- Contributed Attendance, Self-Service, 360 Evaluation, Employees & Resource Management etc. modules in ERP System.
- Developed AI Based Tag-Generation Backend service as the Microservice of Cartup e-commerce platform.
- Design the ER-Diagram and DB Schema, Dependency Injection, Multi-processing in order to manage the 400k products tags paralytically.
- Integrated JWT-based authentication for secure REST API access, enhancing system security.

Python Developer Intern LegoIO

Remote-Washington DC, USA May, 2023-October

- Collaborated with a team of developers, worked on several enterprise-level projects scheduled for imminent launch in the market.
- I contributed to various aspects of the projects, including code writing, code reviews, bug fixing, and documentation, ensuring high software quality standards.

## PROFESSIONAL PROJECTS

ERP System TechnoNext Software Ltd.

- Developed and customized ERP modules using Python (Odo), focusing on Attendance, Employee Management, HR processes, and 360° Evaluation.
- Improved workflow automation and data integrity across HR operations.
- Collaborated closely with cross-functional teams to deliver scalable and user-friendly ERP features.

VPN Management System TechnoNext Software Ltd.

- Independently built an Odo-based VPN Management module with a structured approval chain (Employee → Manager → IT)
- Automated email notifications, credential assignment, and secure role-based access to sensitive information.
- Improved remote access workflow across the company by providing a seamless and secure VPN approval process.

Tag Generation TechnoNext Software Ltd.

- Contributed to the AI team's Tag Generation microservice for Cartup, a major e-commerce platform similar to Daraz.
- Developed backend components using FastAPI and PostgreSQL, leveraging multiprocessing to enable high-speed parallel tag generation.
- Integrated Gemini API to produce accurate product tags, successfully processing 400K product titles to boost Cartup's search and recommendation performance.

On-boarding System TechnoNext Software Ltd.

- Developed backend features for a secure New Joiner On-boarding microservice using FastAPI and PostgreSQL.
- Enabled new employees to complete extensive profile forms through a protected, time-limited link sent with their offer letter.
- Implemented a seamless sync mechanism that transfers submitted data into the ERP system with one click, significantly cutting down manual HR workload and onboarding time.

## RESEARCH INTEREST

- Artificial Intelligence.
- Influence of Artificial Intelligence on ophthalmologist's judgment in glaucoma.
- Artificial intelligence as a clinical support tool in medicine.
- Applications and impact of artificial intelligence in agriculture.
- Cyber Security.

- Sorted out how micro-services are related in this modern era.

### Self-Employment, Dhaka, Bangladesh

Aug, 2022 - May, 2023

- I have learnt **Django, DRF, HTML5 and CSS3** during this time and built some projects related to these topics.
- Hands on learning on Git, GitHub and Linux OS and its various command.

### IBM Data Analyst Professional Program(Apprenticeship)

Nov, 2021 - March, 2022

- Gathered fundamental knowledge about Python, Data Pre-processing, Data Cleaning, Database, Postgres,SQL etc. and successfully passed all the courses tasks, and achieved a **Professional Badge** from IBM and did some projects too.
- Completed all the courses and passed the final exam by obtaining the certification.
- Experienced with popular python libraries like Numpy, Pandas, Matplotlib, etc.

## RESEARCH PROJECTS

- A Smart, Voice-call Enabled and Customizable Virtual Assistant for University Students Aiming to Help with Academic Courses.
- This virtual assistant chatbot was designed and trained specifically for the Data Structures and Algorithms course.
- Google Dialogflow was used to manage intent recognition, knowledge handling, and system integration.
- The chatbot was integrated with Telegram and Slack to allow users to ask questions and receive instant responses.

## WORKSHOPS

- Research Methodology Workshop**, Department of ICT, Mawlana Bhashani Science and Technology University (2 days).
- Robotics and Automation Workshop** IEEE Student Branch, Mawlana Bhashani Science and Technology University. (2 days).
- Python/Java/C++ Programming Workshop**, CSE Department, Mawlana Bhashani Science and Technology University (7 days).
- Career as a Researcher and Industrial Tour**: Participated in an industrial tour at the Grameenphone Head Office to observe their technological innovations, organized by IEEE Bangladesh (1 day).

## ACADEMIC CERTIFICATIONS

- IBM Data Science Professional Certificate
- IBM Data Analyst Professional Certificate
- Kaggle Intro to Machine Learning Certificate

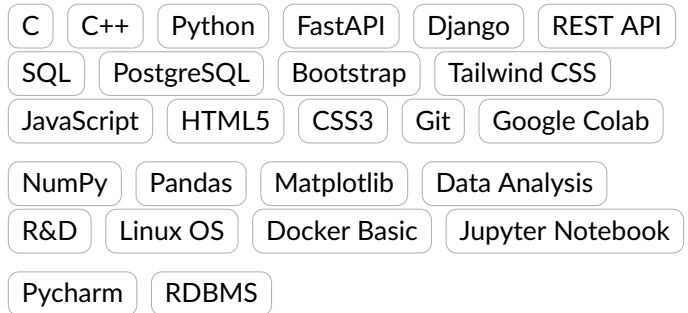
## RESEARCH EXPERIENCE

### Undergraduate Research

MBSTU

- Conducted research on brain tumor classification using deep convolutional neural networks (VGG16).
- Collected, preprocessed, and augmented MRI datasets; trained models using Python/TensorFlow on Google Colab. Achieved classification accuracies of 96.67 percent and 97.67 percent on two datasets.
- Co-authored a published paper in International Journal of Information Technology & Computer Science (IJITCS), Vol. 16(3), 2024.  
DOI: <https://doi.org/10.5815/ijitcs.2024.03.02>

## SKILLS



## ONLINE PROBLEM SOLVING

I have solved **300+** problems in various platforms.

- LeetCode : [leetcode.com/Habib16051](https://leetcode.com/Habib16051)
- Hackerrank : [hackerrank.com/Habib\\_IT](https://hackerrank.com/Habib_IT)
- Codeforces : [codeforces.com/profile/habibmhr143](https://codeforces.com/profile/habibmhr143)
- Coding Ninja : [codingninjas.com/codestudio/profile/habib16051](https://codingninjas.com/codestudio/profile/habib16051)
- URI : <https://www.beecrowd.com.br/judge/en/users/statistics/114080>

## CO-CURRICULAR ACTIVITIES

- IEEE Tech-Festival Organizer**, IEEE MBSTU SB.
- IEEE Web-Master and Publication**, IEEE MBSTU SB.
- All-rounder Cricketer**, ICT Cricket Team, MBSTU.
- Blood Donation Camp Organizer**, Mawlana Bhashani Science and Technology University.
- Basic Linux OS and Git Trainer**, Department of ICT, MBSTU.
- Campus correspondent**, VarsityVoice news portal.
- Love to play cricket during free time.