

Md Raihan Alam Rahi

raihanrahi170001@gmail.com | +8801957054992 | github.com/RARAH100 | linkedin.com/in/md-raihan-alam-rahi |
kaggle.com/raihanrahi | codeforces.com/profile/Rahi2336 | researchgate.net/profile/Md-Rahi

OBJECTIVE

Aspiring final-year Computer Science and Engineering student with a strong interest in Machine Learning, Artificial Intelligence, Web Development, and Data Analytics. Seeking opportunities to apply analytical skills, develop intelligent systems, and contribute to impactful AI-driven projects.

EDUCATION

Bachelor of Science in Computer Science and Engineering

2022 – 2026

Green University of Bangladesh, Dhaka

Relevant Coursework: Web Development, Machine Learning, Artificial Intelligence, Software Engineering, Data Structures and Algorithms, Database Management Systems, Operating Systems, Computer Networks

TECHNOLOGY STACK

- **Frontend:** React, Tailwind CSS, HTML, CSS, JavaScript, Bootstrap
- **Backend:** Python, Node.js
- **Database:** MySQL, PostgreSQL, MongoDB
- **Data Analysis:** Python (Pandas, NumPy), SQL, Excel, Data Cleaning, Data Visualization (Matplotlib, Seaborn, Power BI, Tableau), Statistics
- **Machine Learning:** Scikit-learn, TensorFlow, PyTorch, Data Preprocessing, Feature Engineering, Model Training & Evaluation, Hyperparameter Tuning, NLP Basics
- **Other Tools:** Git, GitHub, VS Code, Microsoft Office
- **Fundamentals:** Data Structures, Algorithms, OOP, SDLC, Agile, Version Control

PROJECTS

Employee Performance Analysis System

Technology Used: Streamlit, Python (Pandas, Scikit-learn, RL), Plotly, Excel

- Developed an intelligent dashboard for analyzing employee performance metrics.
- Integrated an offline reinforcement learning (Bandit) model to generate personalized feedback (e.g., Good, Needs Improvement, Excellent).
- Enabled CSV/Excel upload, auto feature processing, score visualization, and department-wise lookup with individual search and PDF export.

GitHub: github.com/RARAH100/Employee_performance_analysis

FocusFlow Productivity Web App

Technology Used: HTML, CSS, JavaScript

- Built a responsive app with task management, Pomodoro timer, quick notes, and analytics.
- Implemented local storage, theme switching, and charts for productivity tracking.

GitHub: github.com/RARAH100/focus-flow-project

Business Automation Chatbot

Technology Used: Python (FastAPI, LangChain, Hugging Face Models), Streamlit, OpenAI API

- Designed an intelligent chatbot system to automate business operations and customer interactions.
- Implemented NLP-based intent understanding, knowledge retrieval, and conversational logic using LangChain pipelines.
- Integrated with FastAPI backend for scalable deployment and Streamlit for interactive dashboard visualization.

GitHub: github.com/mysticboy170001/businessautomationchatbot

Hospital Management System (University Project)

Technology Used: Java, MySQL

- Built a hospital management system for handling patient records, doctor scheduling, and billing.
- Implemented modular design with database integration, CRUD operations, and authentication.

Chat Application (University Project)

Technology Used: Java Socket Programming, Swing GUI

- Developed a real-time chat application using multithreading and socket communication.

- Supported multiple users, private messaging, and user authentication in a LAN environment.

Airplane Route Planner (University Project)

Technology Used: C++, Graph Algorithms (Dijkstra, A Search)*

- Designed an algorithmic project for finding optimal flight routes between cities.
- Implemented shortest path algorithms and visualized route efficiency through cost and distance metrics.

Data Analysis & Machine Learning Projects

Technology Used: Python, Pandas, Scikit-learn, Matplotlib

- Analyzed real-world datasets to extract insights using visualization and statistical methods.
- Built ML models for classification and prediction, improving performance with feature engineering.

Ongoing Projects

Technology Used: React, Python (ML/NLP)

- Working on advanced machine learning pipelines for NLP and predictive analytics.
- Exploring React + AI-powered web projects for smarter user interactions.

EXPERIENCE

AI/ML Researcher, Resarche Den

Jan 2025 – Present

- Conducting research on advanced Artificial Intelligence topics, including Large Language Models (LLMs), reinforcement learning, and intelligent systems.
- Contributing to the design and development of novel AI frameworks for real-world problem solving.
- Collaborating on academic publications and experimental research projects.

AI Engineer Intern, Zensoft Lab

Sept 2025 – Jan 2026

- Worked on Natural Language Processing (NLP), predictive modeling, and reinforcement learning applications.
- Contributed to AI model development, dataset preparation, and integration of AI pipelines for business automation.
- Collaborated on generative AI and intelligent system design projects.

PUBLICATIONS

- “*Protecting Student Mental Health with a Context-Aware ML Framework for Stress Monitoring*”, QPAIN 2026.
- “*A Large Language Model-Driven Reinforcement Learning Framework for Intelligent Employee Performance Optimization*”, QPAIN 2026.

ACHIEVEMENTS

- Participated in international and national programs, including IEEE, GUCC, and STI programs.
- Competed in multiple competitive programming contests.

INTERESTS

Artificial Intelligence, Machine Learning, Data Science, Computer Vision, Natural Language Processing, Web Development, Algorithm Design