MD SHAOWN RAHMAN

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ABOUT ME

Computer Science graduate with strong foundations in algorithms, data structures, operating systems, computer architecture, and mathematical methods. Experienced in designing and implementing software systems and algorithmic solutions, with applied research exposure in computer vision and data-driven software systems. Seeking advanced training in software systems, algorithms, and scalable computing through the MSc in Computer Science.

EDUCATION AND TRAINING

MAY 2018 – DEC 2022
BACHELOR OF SCIENCE Pundra University of Science & Technology, Bogura, Bangladesh

Relevant Courses: Data Structures and Algorithms, Operating Systems, Computer Architecture, Database Management Systems, Computer Networks, Software Engineering, Linear Algebra, Probability and Statistics, Digital Signal Processing, Artificial Intelligence.

Field of study Computer Science & Engineering | **Final grade** 3.40/4.00

2014 – 2016
HIGHER SECONDARY SCHOOL CERTIFICATE Government Azizul Haque College, Bogura

Field of study Science | **Final grade** 5.00/5.00

2012 – 2014
SECONDARY SCHOOL CERTIFICATE SOS Hermann Gmeiner College, Bogura

Field of study Science | **Final grade** 5.00/5.00

RESEARCH EXPERIENCE

OCT 2021 – OCT 2022
Bachelor's Thesis

Title: Recognition System from Handwritten Medical Prescription for Ensuring Efficient Healthcare
Supervisor: Md. Rabiul Islam, Lecturer, Department of Computer Science & Engineering

- Designed and implemented an end-to-end OCR system for handwritten medical prescriptions, integrating algorithmic preprocessing with machine learning–based classification.
- Created and curated a dataset of 3,120+ real-world handwritten samples with normalization and labeling pipelines.
- Applied image processing algorithms (segmentation, noise reduction, feature extraction) to improve system robustness.
- Implemented and evaluated an 18-layer CNN architecture, achieving 86% validation accuracy through systematic testing.
- Analyzed error patterns and generalization limits to assess algorithmic performance and system reliability.

PROJECTS

Real-Time Face Mask Detection System (Undergraduate Project)

- Developed a CNN-based computer vision system for real-time face mask detection using TensorFlow and OpenCV.
- Implemented image preprocessing and model optimization for live webcam inference.
- Gained experience in real-time systems, performance tuning, and pipeline integration.

AI-Powered Crisis Tweet Classifier

- Combined CrisisLexT6 and CrisisLexT26 datasets and applied text preprocessing with TF-IDF for feature extraction.
- Trained machine learning models (Logistic Regression, SVM, Random Forest), achieving 91% classification accuracy.
- Deployed the system as a Streamlit-based web application for real-time inference.

Global CO_2 Emission Dashboard

- Designed a data-processing pipeline in Python to analyze global CO_2 emissions data (1750–2023).
- Implemented dynamic filtering for total/per-capita emissions, top emitters, and GDP correlations to enable analytical insights.
- Processed multi-year CO_2 data (1750–2023) from public sources, enabling responsive data exploration.

WORK EXPERIENCE

MIT PARK LTD. – BOGURA, BANGLADESH

WEB DEVELOPER – Nov 2023 – Dec 2024

- Developed and maintained responsive front-end user interfaces using HTML, CSS, and JavaScript.
- Implemented reusable UI components and integrated front-end applications with backend services via RESTful APIs.
- Collaborated with UI/UX designers and backend developers to apply functional, user-centered web interfaces.
- Used Git-based version control systems and participated in collaborative team-based development workflows.

WEB DEVELOPER INTERN – May 2023 – Oct 2023

- Assisted in the development of responsive user interfaces using HTML, CSS, and JavaScript.
- Identified and fixed user interface bugs, improved layouts, and optimized client-side performance.
- Participated in code reviews, sprint planning, and Agile software development processes.

SKILLS

Technical & IT Skills

- Programming Languages: Python, C/C++, JavaScript
- Core Computer Science: Data Structures, Algorithms, Operating Systems, Computer Architecture, Computer Networks
- Software & Systems: Git, RESTful API Integration, MySQL, SQLite
- Data & Computing Tools: Pandas, NumPy, Exploratory Data Analysis (EDA)
- Applied Machine Learning: TensorFlow, Keras, Convolutional Neural Networks (CNNs), Scikit-learn, OpenCV
- Data Visualization & Dashboards: Matplotlib, Plotly, Dash, Streamlit
- Development Tools & Environments: Jupyter Notebook, VS Code, Google Colab
- Web Technologies & UI Tools: HTML, CSS, Figma, Adobe XD

LANGUAGE SKILLS

Mother tongue(s): **BENGALI**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	B2	B2	B2

COURSES, CERTIFICATIONS & ACTIVITIES

Courses & Certifications

- Machine Learning Specialization – DeepLearning.AI & Stanford University (2025)
- Data Science & Machine Learning with Python – Ostad Academy (2025)
- Generative AI Engineering – IBM Professional Certificate (Data Analysis with Python; Databases & SQL for Data Science)(2025)
- CS50's Introduction to Programming with Python – Harvard University (edX) (2025)

Activities & Student Memberships

- Private Tutoring - Mathematics & Science (Self-organized / Independent), (2017–Present)
- Active participant in the PUB Programming Competition, engaging in problem-solving events (2018–2022)
- Volunteer and Member of the Pundra University Science Club, contributing to academic and science activities (2019–2022)

RECOMMENDATIONS

Md. Habib Ehsanul Hoque Assistant Professor & Head

Department of Computer Science & Engineering, Pundra University of Science & Technology

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