

Tanvir Hossain

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Summary

Computer Science (AI) sophomore at the University of Malaya – curious about technology, business, and how they shape each other. Focused on exploring where intelligent systems create the most meaningful impact.

Education

Bachelor of Computer Science: Artificial Intelligence **CGPA: 3.10/4.00**
University of Malaya (UM) | Kuala Lumpur, Malaysia Oct 2024 – present

Higher Secondary Certificate (HSC): Science **GPA: 5.00/5.00**
Bir Shreshtha Munshi Abdur Ruof Public College | Dhaka, Bangladesh Jun 2019 – Feb 2022

Professional Experiences

Regional Manager (Malaysia), Aspiro | Part-time Apr 2025 – Jan 2026
Remote

- Assisted with university selections, applications, visa processes, and accommodation planning.
- Conducted mock interviews with 20+ students applying to universities abroad to help them prepare.

Private Tutor 2020 – 2024
Cumilla, Bangladesh

- Tutored 10+ students in various subjects — Physics, Chemistry, Biology, Mathematics, and English.
- Provided personalized instruction to help students strengthen core concepts, improve problem-solving skills and prepare for exams.

Club and Volunteer Experiences

Recycling Campaign Coordinator, Riicycle | Part-time Mar 2025 – Feb 2026
Kuala Lumpur, Malaysia

- Ran outreach campaigns across condominiums, universities and community fests — talking to residents about the company and what it does.
- Collected recycled items at drop-off events, weighed materials, logged data into the app, and helped walk-ins understand how the points system works.

Executive Member, Creative & Media Department, BSAUM Mar 2025 – Oct 2026
University of Malaya

- Contribute to the planning and promotion of cultural and social events for Bangladeshi students at UM.
- Support the design and creation of digital content for events.

Technical Skills

Programming Python | Java | C/C++ | HTML | CSS | JavaScript
ML / AI NumPy | Pandas | Matplotlib | Seaborn | Scikit-learn | PyTorch
Web Technologies Node.js | React | Express.js | EJS | Spring Boot
(foundational)
Databases MySQL | MongoDB
Tools Git | GitHub | Docker | Android Studio | Google Colab

Projects

BadDebtGuard AI | Python, XGBoost, LLM (OpenAI GPT-4o), RAG, FastAPI, React, ChromaDB Dec 2025
CodeFest'25 Hackathon, PEKOM, University of Malaya

- Built a web-based credit risk assessment system combining structured financial data with unstructured borrower text to output a High/Medium/Low risk score.
- Used XGBoost for numerical features and an LLM+RAG pipeline for behavioral signals from loan essays and bank statements.
- Won 1st place in the Open Category against 20+ teams.

GitHub: https://github.com/touhidulai/Cerebral-Cortex_CodeFest25_BadDebtGuard-AI

Predicting Hourly Komuter Ridership | Python, Google Colab, Random Forest, XGBoost Jun 2025

WIA1006 Machine Learning (Group Project), University of Malaya

- Developed a ML pipeline to predict hourly ridership patterns for Malaysia's Komuter train system using open data from data.gov.my.
- Performed data preprocessing, feature engineering, and exploration data analysis, and trained and compared five ML models including Random Forest, XGBoost, and AutoML (Auto-Sklearn).
- Conducted hyperparameter tuning to optimise model accuracy and selected the best-performing model for final evaluation.

GitHub: https://github.com/Tanvir-h-simon/Komuter_Ridership

Student Performance Predictor | Python, Scikit-Learn, Pandas, NumPy, Matplotlib, Seaborn Feb 2025

WIA1007 Introduction to Data Science (Group Project), University of Malaya

- Analyzed 6.6k student records to identify the key factors behind exam performance.
- Performed data preprocessing, feature engineering, and exploration data analysis, and developed and trained three predictive models (Linear Regression, Decision Tree, and Neural Networks) to accurately forecast student exam scores.

GitHub: <https://github.com/Tanvir-h-simon/Student-Performance-Analysis>

Badan Warisan Malaysia | React, Spring Boot, Java 21, LLM (Meta-Llama 3.2), Docker Jan 2026

WIA2006 System Analysis and Design (Group Project), University of Malaya

- Redesigned the Badan Warisan Malaysia website as a full-stack app with an AI chatbot (Meta-Llama 3.2) accessible across all pages.
- Built the backend with Spring Boot and Java 21 and containerized the full stack using Docker for consistent deployment.

GitHub: https://github.com/touhidulai/BWM_SAD

WanderLust | Node.js, Express.js, MongoDB, EJS Mar 2026

Independent Activity

- Built a property and travel listings web app with full CRUD functionality using Node.js, Express.js, and MongoDB.
- Used EJS for server-side rendering with location-based search filtering, and Mongoose with Joi for database schema and validation.

Live Demo: <https://wanderlust-qpr6.onrender.com/>

GitHub: <https://github.com/Tanvir-h-simon/WanderLust>

Awards and Achievements

Hackathon Champion, Open Category | BadDebtGuard AI Dec 2025

Persatuan Komputer Universiti Malaya (PEKOM), University of Malaya.

Languages

Bangla	Native	• English Proficient	– IELTS 7.0 (L: 8.5 R: 8.0 W: 6.0 S: 6.0)
Hindi / Urdu	Independent User	• Arabic	Basic to Independent User
Malay	Basic User	• German	Basic User