MOONTAHA NISHAT CHOWDHURY

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1/A New Baily Road, Bailey Ritz, Dhaka, Bangladesh

RESEARCH INTERESTS

Machine Learning, Human Computer Interaction, Data Science, Pattern Recognition

EDUCATION

Ahsanullah University of Science and Technology (AUST) — Dhaka, Bangladesh
B.Sc. in Computer Science and Engineering — *April 2017 - January 2022*
CGPA: **3.798**/4.00

PUBLICATIONS [GOOGLE SCHOLAR]

1. **Moontaha Nishat Chowdhury**, H. M. Haque, Kazi Taqi Tahmid, Fatema-Tuz-Zohora Salma, and Nafisa Ahmed. "A Novel Approach for Product Recommendation Using Smartphone Sensor Data." *International Journal of Interactive Mobile Technologies* 16, no. 16 (2022).
2. Kazi Taqi Tahmid, Khandaker Rezwan Ahmed, **Moontaha Nishat Chowdhury**, Koushik Mallik, Umme Habiba, and HM Zabir Haque. "An Integrated Crowdsourcing Application for Embedded Smartphone Sensor Data Acquisition and Mobility Analysis." *Journal of Advances in Information Technology* Vol 13, no. 5 (2022).

TEACHING EXPERIENCE

Ahsanullah University of Science and Technology (AUST) — Dhaka, Bangladesh
`Lecturer` — November 2022 - Present
`Department of Computer Science and Engineering`

Ahsanullah University of Science and Technology (AUST) — Dhaka, Bangladesh
`Adjunct Lecturer` — January 2022 - October 2022
`Department of Computer Science and Engineering`

TECHNICAL SKILLS

- **Languages**: Python, Java, C/C++, SQL, Oracle (PL/SQL), HTML/CSS, PHP
- **Frameworks**: Bootstrap, Asp.net, Android Studio
- **Tools**: Git, Visual Studio, PyCharm, Jupyter Notebook, Colab, Code Blocks, Arduino, Matlab, LaTex
- **Libraries**: pandas, NumPy, Matplotlib, PyTorch, keras
- **Microsoft Office**: Word, Excel, PowerPoint
- **Google Applications**: Docs, Sheets, Slides, Forms

LINGUISTIC PROFICIENCY

- English (Fluent Working Proficiency)
- Bengali (Native Language)

UNDERGRADUATE THESIS

Title: ***Prediction of Product Interest by Observing Users' Preferences and Smartphone Sensor Data***
Supervisor: H M Zabir Haque, Assistant Professor, Dept. of CSE, AUST
Summary: We have analyzed smartphones' built-in sensor data and proposed a hybrid product recommendation model specially for retail shops. For that purpose, we have developed an android application that collects embedded smartphone sensor data and provides object detection facility in order to scan products. By analyzing the GPS sensor data and users' scanned product record using machine learning clustering algorithms, we have introduced a new metric for collaborative filtering in order to build a recommendation model based on customers' implicit data.

PROJECTS

- **Prediction of COVID-19 from chest X-ray images using Deep Transfer Learning**
  Library: PyTorch
  Link: https://github.com/chowdhurymoontaha/Prediction-of-COVID-19-from-chest-X-ray-images-using-Deep-Transfer-Learning
- **Book Recommendation System**
  Language: Python
  Link: https://github.com/chowdhurymoontaha/Book-Recommendation-System
- **Disk Scheduling Algorithm Simulator**
  Platform: Oracle PL/SQL
  Link: https://github.com/chowdhurymoontaha/Disk-Scheduling-Algorithm-Simulator
- **Medi Minder (Medicine Reminder: Hardware Project)**
  Components: Arduino Mega 2560, RTC(Real Time Clock for Alarm), Servo Motor, Ultrasonic sensor, Heartbeat sensor, and DHT22 sensor.

AWARDS

- **Dean's List of Honor** (1st position among approximately 150 students) *2022*
- **Semester Fee Waiver** (Based on B.Sc Semester-wise results) *2019 - 2021*
- **Award for excellence in higher secondary education**
  Ministry of Education, Govt. of Bangladesh *2017 - 2020*

REFERENCE

H M Zabir Haque
Assistant Professor
Department of Computer Science and Engineering
Ahsanullah University of Science and Technology
Email: zabir.haque.cse@aust.edu