



Emran Ali

Education | Research | Development

I am an enthusiastic, hardworking, and patient life-long learner who has experience in teaching and research at university with industrial development skills. I developed excellent critical thinking, problem-solving, computer programming, communication, and management skills throughout my studies and professional periods. I wish to expand and use my knowledge and experiences to contribute to the outcome based productive progresses in leading universities, institutes and industries anywhere in the world.

Contact

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Expertise

- Data Analytics
- Machine (Deep) Learning
- Signal Processing
- iOS App Development

Research Area

- Data Science & Analytics
- Machine (Deep) Learning
- Health Informatics & MedTech
- Disease Detection and Prediction
- (Bio)Signal Processing
- Time-series Data Analysis
- Business & Market Analytics

Personal Skill

- Critical Thinking
- Problem Solving
- Communication
- Leadership

Programming Language

- Python
- Java
- Objective-C
- C/C++
- R
- SQL
- PHP

Language

- English
- Bengali (Bangla)

Membership (Student)

- IEEE
- IEEE EMBC
- DUSA

References

Available upon request

Summary

- Teaching experience: >8 Years
- Research experience: >9 Years
- Software development experience: 3 Years
- Research publications: >11
- Institutional involvement: 3
- Industry involvement: 5
- Industry collaboration projects: 4
- Specialisation certificate: >10

Education

- Ph.D. in Information Technology | 2023-Till date (Ongoing)**
Deakin University, Melbourne, Australia -**joint with-** Coventry University, Coventry, The UK
A Machine Learning-Based Analysis of Sleep Patterns in Aging Using Physiological Signals
Machine Learning (ML) | Deep Learning (DL) | ML Interpretability | Health Informatics | Brain-signal Processing | Sleep | Aging | Healthy Aging | Sleep Disorders | Data Analytics | Business Analytics
- M.Sc. (by Reserach) in Information Technology | 2020-2022**
Deakin University, Melbourne, Australia
Minimising Electroencephalogram Channels for Epileptic Seizure Detection
ML | DL | Medical Technology | Brain-signal Processing | Optimisation | Epilepsy | Weather Prediction
- B.Sc. in Computer Science and Engineering (CSE) | 2007-2012**
Hajee Mohammad Danesh Science and Technology University (HSTU), Dinajpur, Bangladesh
Advanced String Searching Mechanism with Indexed Binary Search for J2ME English to English Dictionary Application
Algorithm Development | Searching Algorithm | Application Development

Pofessional Experiences

- Research Assistant | Casual | 2020-2023**
Deakin University, Melbourne, Australia
Project involvement and collaboration (col.):
-Epileptic Seizure Detection for ICU Patients - (col.) Monash University & Alfred Health
-Indoor Air Temperature and Pollution Prediction - (col.) Monash University & Aetmos Australia
- Casual Academic (Teaching+HelpHub) | Casual | 2020-2023**
Deakin University, Melbourne, Australia
Tutoring, Marking & HelpHub: Python Programming, Data Science, Machine Learning, Database, Business Analytics
- Faculty Member (Teaching and Research) | Full-time | 2014-2022**
Hajee Mohammad Danesh Science and Technology University (HSTU), Dinajpur, Bangladesh
Teaching | Research | Collaboration
- Software Developer & Project Development Manager | Full-time | 2012-2014**
Advanced Apps Bangladesh (AAPBD) Limited, Dhaka, Bangladesh
iOS, Android, Web App Development+Testing, Project+Team+Client Management

Awards and Recognitions

- Cocutelle Ph.D. Fellow, Deakin University, Australia & Coventry University, the UK, 2023.
- Deakin University Post-graduate Research Scholarship (DUPRS), Deakin University, Australia, 2023.
- Bangabandhu Science and Technology Fellowship (BSTF), Bangabandhu Science and Technology Fellowship Trust (BSTFT), Ministry of Science and Technology, Bangladesh, 2020.
- Best Presentation Award, Annual Conference (2021), School of IT, Deakin University, 2021.
- Best employee award, AAPBD, 2013.
- Ranked 1st from Bangladesh in the entrance exam-2013 for the Master's program at South Asian University (SAU), India, operated by SAARC (<https://www.saarc-sec.org>).
- Ranked 1st in the batch in Bachelors from CSE department at HSTU, 2012.
- Ranked 1st in the Intra-University Computer Programming Contest (CPC) at HSTU, 2009.

Profiles

- LinkedIn <https://bd.linkedin.com/in/wwwmemran>
- Google Scholar <https://scholar.google.com/citations?user=ej8d6LkAAAAJ>
- GitHub <https://github.com/WWW-EMRAN>
- ORCID <https://orcid.org/0000-0003-3095-5265>