



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.



Summary

- Teaching/training experience: >9 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 | Jan.2023-Till date (Ongoing)**
Deakin University, Melbourne, Australia -**joint with-** Coventry University, Coventry, 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.S. (by Reserach) in Information Technology | Feb.2020-Oct.2022**
Deakin University, Melbourne, Australia
Minimising Electroencephalogram Channels for Epileptic Seizure Detection
ML | DL | Medical Technology | Signal Processing | Optimisation | Epilepsy | Environment
- **B.Sc. in Computer Science and Engineering (CSE) | Jan.2007-Feb.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



Professional Experiences

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



Awards and Recognitions

1. AWS AI/ML Scholarship (Phase 1 and 2) and mentorship | AWS & Udacity, USA, 2023-2024.
2. Cocutelle Ph.D. Fellow, Deakin University, Australia & Coventry University, UK, 2023.
3. Deakin University Post-graduate Research Scholarship (DUPRS), Deakin University, Australia, 2023.
4. Bangabandhu Science and Technology Fellowship (BSTF), Bangabandhu Science and Technology Fellowship Trust (BSTFT), Ministry of Science and Technology, Bangladesh, 2020.
5. Best Presentation Award, Annual Conference (2021), School of IT, Deakin University, 2021.
6. Best employee award, AAPBD, 2013.
7. 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>).
8. Ranked 1st in the batch in Bachelors from CSE department at HSTU, 2012.
9. Ranked 1st in the Intra-University Computer Programming Contest (CPC) at HSTU, 2009.



Profiles

- in 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>

Contact

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- <https://emran.humachlab.com/>

Expertise

- Data Analytics
- Machine (Deep) Learning
- Signal Processing
- Apple 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/Swift
- SQL
- C/C++
- R
- PHP

Language

- English
- Belgali (Bangla)

Membership (Student)

- IEEE
- IEEE EMBC
- ACS
- DUSA

References

Available upon request