



# 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

### Email

emran.ali@research.deakin.edu.au

### Website

<https://wmm-emran.github.io/>

## Expertise

- Data Analytics
- Machine 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

- IEEE
- IEEE EMBC

## References

Available upon request

## Summary

- Teaching experience: >10 Years
- Research experience: >12 Years
- Software development experience: around 3 Years
- Research publications: >15
- Institutional involvement: 3
- Industry involvement: 5
- Research collaboration with institute-industry involvement: 4
- Specialisation certificate: >20

## Education

- **Ph.D. in Information Technology | 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
- **M.Sc. (by Reserach) in Information Technology | 2020-2022**  
Deakin University, Melbourne, Australia  
Minimising Electroencephalogram Channels for Epileptic Seizure Detection
- **B.Sc. in Computer Science and Engineering | 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

## Experiences

- **Research Assistant | Casual | 2020-2023**  
Deakin University, Melbourne, Australia  
Research Project, Industry Collaboration: Machine (Deep) Learning, Industry Solution
- **Casual Academic (Teaching+HelpHub) | Casual | 2020-2022**  
Deakin University, Melbourne, Australia  
Tutoring, HelpHub: Python Programming Language, Machine Learning, Database, C, C++
- **Faculty Member (Teaching and Research) | Full-time | 2014-2022**  
HSTU, Dinajpur, Bangladesh  
Teaching, Research, Funding, Collaboration
- **Software Developer & Project Dev. Manager | Full-time | 2012-2014**  
Advanced Apps Bangladesh 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.
6. Best employee award in AAPBD, 2013.
7. Ranked 1st from Bangladesh in the entrance exam-2013 for Masters 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

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