

#### Contact

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https://emran.humachlab.com/

# **Expertise**

- Data Analytics Machine (Deep) Learning
- AWS & Azure
- GenAl & XAI
- 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++

#### Language

- Belgali (Bangla)

## **Membership (Student)**

- **EMBC**

#### References

Available upon request

# 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 experience: >10 Years
- Research experience: >12 Years
  Software development experience: 3 Years
- Research publications: >15
- Institutional involvement: 3
- Industry involvement: 5
- Industry collaboration projects: 4
- Specialisation certificate: >20

#### **Education**

#### Ph.D. in Information Technology | 2023-Present (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.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 | 2020-2024

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

#### Graduate Research Teaching Fellow (Teaching+Sessional) | Part-time | 2025-Present Deakin University, Melbourne, Australia

Tutoring, Marking & HelpHub: Python Programming, Data Science, Machine Learning, Database, Business Analytics

#### Sessional Academic (Teaching+Sessional+HelpHub) | Casual | 2020-Present Deakin University, Melbourne, Australia

Tutoring, Marking & HelpHub: Python Programming, Data Science, Machine Learning, Database, Business Analytics

## Faculty Member (Teaching and Research) | Full-time | 2014-Present (on leave) 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

- 1. Bertelsmann Next Generation TechBooster Scholarship (Phase 1) | Burtelsmann & Udacity, 2024-2025.
- 2. AWS AI/ML Scholarship (Phase 1 and 2) and mentorship | AWS & Udacity, USA, 2023-2024.
- 3. Cocutelle Ph.D. Fellow, Deakin University, Australia & Coventry University, UK, 2023.
- 4. Deakin University Post-graduate Research Scholarship (DUPRS), Deakin University, Australia, 2023.
- 5. Bangabandhu Science and Technology Fellowship (BSTF), Bangabandhu Science and Technology Fellowship Trust (BSTFT), Ministry of Science and Technology, Bangladesh, 2020.
- 6. Best Presentation Award, Annual Conference (2021), School of IT, Deakin University. 2021.
- 7. Best employee award, AAPBD, 2013.
- 8. 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).
- 9. Ranked 1st in the batch in Bachelors from CSE department at HSTU, 2012.
- 10. Ranked 1st in the Intra-University Computer Programming Contest (CPC) at HSTU, 2009.

#### **Profiles**

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