

ISTIYAK AHMAD

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📧 istiakahmad 📞 istiakahmad 📞 0000-0001-9914-4116 📺 Istiak-Ahmad 📺 istiakahmad

An enthusiastic, adaptive, fast-learning, and passionate researcher with a broad and acute interest in the field of natural language processing. I am looking for a PhD programme where I can collaborate, develop new skills, and solve new challenges.

ACADEMIC QUALIFICATION

M.Sc. in Computer Science

King Abdulaziz University

Thesis: Machine and Deep Learning-Based Event Detection Methods and Applications to Enable Smarter Societies

Description: The thesis includes two cases:

- 1) Bangla news article classification using ML and DL algorithms with several word embedding methods. It also includes the auto-labelling methods of news articles using unsupervised topic modelling algorithms.
- 2) Online proctoring system using Bio-metric validation and object detection techniques.

C-GPA: 4.73 out of 5.00

📅 2020 – 2021

📍 Jeddah, KSA

B.Sc. in Computer Science & Engineering

United International University

Thesis: Cough Detection with Speech Analysis

Description: The thesis explores cough detection using audio recordings, with the ultimate objective of quantifying and validating the degree of pathology in cough illness patients.

C-GPA: 3.82 out of 4.00

📅 2012 – 2016

📍 Dhaka, BD

Higher Secondary Certificate

Rajshahi Government City College

C-GPA: 5.00 out of 5.00

📅 2010

📍 Rajshahi, BD

Secondary School Certificate

Masjid Mission Academy

C-GPA: 5.00 out of 5.00

📅 2008

📍 Rajshahi, BD

RESEARCH INTEREST

- Artificial Intelligence, Machine learning and Deep Learning
- Natural Language Processing, Topic Modelling, Sentiment Analysis, Text Summarization
- Image Processing, Object Detection

REVIEWING ACTIVITIES

- IEEE Access, 2022

AWARDS AND HONORS

Saudi Government Scholarship in Master's Program King Abdulaziz University

📅 Jan 2020 – Dec 2021

📍 Jeddah, KSA

Erasmus Mundus Scholarship under Clink Project in Bachelor Program University Lumiere Lyon II

Undergraduate Research Student (Exchange Program)

📅 Sep 2015 – Jul 2016

📍 Lyon, France

EXPERIENCE

Instructor

United International University

Responsibilities: teaching, checking assignment, invigilator

Courses: Software Engineering Lab, Operating System Lab, System analysis & Design Lab, and Cloud Computing

📅 Oct 2016 – Jan 2018

📍 Dhaka, BD

Teaching Assistant

United International University

Responsibilities: teaching, checking assignment

Courses: Microprocessor, Micro controller and Interfacing Lab, and Operating System Lab

📅 Feb 2015 – May 2015

📍 Dhaka, BD

Graduate Research Assistant

High Performance Computing Center, King Abdulaziz University

📅 Jan 2020 – Jan 2022

📍 Jeddah, KSA

Trainee Software Engineer

Era Info-Tech Limited

Projects: Decision Support System, ChatBot

Team: AI and R&D

📅 Jan 2019 – Dec 2019

📍 Dhaka, BD

Head of Information Technology

Bangladesh Digital Education Research Limited

📅 Jan 2018 – Dec 2018

📍 Dhaka, BD

CERTIFICATIONS

- Machine Learning Specialization by University of Washington
Certificate: Coursera
- Machine Learning A-Z: Hands on Python & R In Data Science
Certificate: Udemy

- **M220P: MongoDB for Python Developers**
Certificate: MongoDB University

TECHNICAL SKILLS

- Operating System: Linux, Windows
- Programming Language: Python, R, MATLAB
- Software: TeXstudio, PyCharm, Anaconda

RESEARCH PUBLICATIONS

Journal Articles

- Ahmad, Istiak, AlQurashi, F., Abozinadah, E., & Mehmood, R. (2022a). Bangla news article classification using several word embedding techniques, machine learning, deep learning, and the potrika dataset (revision).
- Ahmad, Istiak, AlQurashi, F., Abozinadah, E., & Mehmood, R. (2022b). Deep journalism and deepjournal v1.0: A data-driven deep learning approach to discover parameters for transportation. *Sustainability*, 14(9). doi:10.3390/su14095711
- Ahmad, Istiak, AlQurashi, F., Abozinadah, E., & Mehmood, R. (2022e). Potrika: Raw and balanced newspaper datasets in the bangla language with eight topics and five attributes (revision).
- Ahmad, Istiak, AlQurashi, F., Abozinadah, E., & Mehmood, R. (2022f). Transfer learning for the detection of covid19, pneumonia, and tuberculosis from chest x-ray images (revision).
- Ahmad, Istiak, AlQurashi, F., Abozinadah, E., & Mehmood, R. (2021). A novel deep learning-based online proctoring system using face recognition, eye blinking, and object detection techniques. *International Journal of Advanced Computer Science and Applications*, 12(10). doi:10.14569/ijacsa.2021.0121094

Book Chapter

- Ahmad, Istiak, AlQurashi, F., Abozinadah, E., & Mehmood, R. (2022c). *Navigation, trajectory planning, and trajectory following*. Connecticut, USA: Springer, (Under Review).
- Ahmad, Istiak, AlQurashi, F., Abozinadah, E., & Mehmood, R. (2022d). *Perception, sensors, and situation awareness*. Connecticut, USA: Springer, (Under Review).

Conference Proceedings

- Maruf, N. A., Ahmad, Istiak, & Basuhail, A. (2022). Transfer learning approach for saudi riyal detection and recognition. In *IEEE international conference on electrical, computer & telecommunication engineering (ICECTE)* (Submitted).

Datasets

- Ahmad, Istiak, Abozinadah, E., Al Qurashi, F., & Mehmood, R. (2022a). Guardian transportation dataset (gt202201). doi:10.17632/yvxx6s5xhh.1
- Ahmad, Istiak, Abozinadah, E., Al Qurashi, F., & Mehmood, R. (2022b). Traffic technology today transportation dataset (ttit202201). doi:10.17632/k4bgjwktyp.1
- Ahmad, Istiak, Abozinadah, E., Al Qurashi, F., & Mehmood, R. (2022c). Web of science transportation dataset (wst202201). doi:10.17632/tnfw2dh5nj.1
- Ahmad, Istiak, Abozinadah, E., AlQurashi, F., & Mehmood, R. (2021). Potrika: Raw and balanced newspaper datasets in the bangla language with eight topics and five attributes. doi:10.17632/v362rp78dc.2

REFERENCES

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Dr Fahad Alqurashi

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King Abdulaziz University, Jeddah, KSA

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