

MOHD HAFIZUL AFIFI BIN ABDULLAH

Candidate for Doctor of Philosophy (Ph.D.) in Information Technology

Specializes in Information Extraction, Predictive Analytics, Big Data Analytics, AI/ML

IEEE Graduate Student Member and MBOT Graduate Technologist

✉ mohd_20002084@utp.edu.my | 🌐 hafizulabdullah.com



PERSONAL DETAILS

Language Spoken & Written : English and Bahasa Melayu

Health : Excellent, non-smoker

PROFESSIONAL SUMMARY

- Candidate for Ph.D. in Information Technology, Universiti Teknologi PETRONAS.
- 2 years in industry, 8 years in research, and 5 years of teaching experience.
- Extensive expertise in machine learning and data visualization for real-life data science problems.

PUBLICATION METRICS

Total Q1/Q2 Manuscripts: 3

Scopus : Citations: 71 Documents: 15 h-Index: 6

G/Scholar : Citations: 115 Documents: 22 h-index: 7

EDUCATION

2021-Current	Universiti Teknologi PETRONAS Ph.D. in Information Technology	Ongoing
2017-2020	Universiti Tun Hussein Onn Malaysia Master of Information Technology (Research)	Graduated
2013-2017	Universiti Tun Hussein Onn Malaysia Bachelor's in Computer Science (Web Technology) with Honours	CGPA 3.74

PROFESSIONAL EXPERIENCES

- **Teaching Assistant [Jan 2023 – Current]** at Universiti Teknologi PETRONAS, Perak, Malaysia.
- **Graduate Assistant [Jan 2021 – Dec 2022]** at Universiti Teknologi PETRONAS, Perak, Malaysia.
- **Postgraduate Research Attachment [Apr 2021 – May 2021]** at Universitas Muhammadiyah Prof. Dr. HAMKA (UHAMKA), Jakarta, Indonesia.
- **Special Services [Dec 2020 – Jan 2021]** at Universiti Teknologi PETRONAS, Perak, Malaysia.
- **Research Officer [May 2020 – Dec 2020]** at Centre for Research in Data Science (CeRDaS), Universiti Teknologi PETRONAS, Perak, Malaysia.
- **Special Services [Mar 2020 – April 2020]** at Universiti Teknologi PETRONAS, Perak, Malaysia.
- **Graduate Research Assistant [Mar 2017 – Jan 2019]** at Universiti Tun Hussein Onn Malaysia, Johor.
- **System Analyst Programmer [Aug 2016 – Feb 2017]** Gates IT Solution Sdn Bhd, UPM Serdang.

PEDAGOGICAL EXPERIENCES

Lab & Tutorial Courses

- Business Intelligence
- Big Data Analytics
- IT Project Management
- IT Infrastructure
- Enterprise Resource Planning
- Information Security Management

Trainer Experiences

- **Assistant Trainer [17,25 June and 22 July 2022]** – Business Analytics using Power BI for Management and Humanities Department, UTP
- **Assistant Trainer [17-24 May 2022]** – KPT-PENJANA 3.0: Master the Basics Big Data, AI and Machine Learning for Tomorrow’s Workforce
- **Assistant Trainer [15-17 February 2022]** – KPT-PENJANA 1.0: Digital Transformation for the Future of Works: Big Data, AI and Machine Learning (Module: Understanding the “Future of Works”)
- **Assistant Trainer [11-14 February 2022]** – KPT-PENJANA 1.0: Digital Transformation for the Future of Works: Big Data, AI and Machine Learning (Module: Introduction to Digital Transformation)
- **Assistant Trainer [19-25 January 2022]** – KPT-PENJANA 1.0: Digital Transformation for the Future of Works: Big Data, AI and Machine Learning (Module: Big Data Analytics: Insight to Action)
- **Trainer [24-26 March 2021]** – Lembaga Tabung Haji Grp 1 - Big Data Analytics Using Power BI
- **Trainer [22-24 March 2021]** – Lembaga Tabung Haji Grp 2 - Big Data Analytics Using Power BI
- **Trainer [15-16 March 2021]** – SKO - Power BI for Finance (Session 2)
- **Trainer [8-9 March 2021]** – SKO - Power BI for Finance (Session 1)
- **Trainer [22-24 February 2021]** – GTS - Big Data Analytics for Oil & Gas Using Power BI – Session 2.
- **Trainer [16 February 2021]** – SKO - Big Data Analytics for Oil & Gas Using Power BI – Refresher.
- **Assistant Trainer [8-10 February 2021]** – GTS - Big Data Analytics Using Power BI – Session 1.
- **Assistant Trainer [27-28 October 2020]** – Big Data Analytics for Business and Beyond.
- **Assistant Trainer [18-19 October 2020]** – Big Data Analytics for PMA Beginner Level.
- **Assistant Trainer [31 March 2020]** – Big Data Analytics Short Course with PETRONAS Staff.
- **Assistant Supervision for FYP 1 & FYP 2** – [UTHM] for Undergraduates Final Year Project.

PROFESSIONAL CERTIFICATIONS

- EC-Council Network Security Administrator (ENSA) by EC-Council.

COURSES & WORKSHOPS

- Professional Short Course: LaTeX Workshop, 25 July 2023 at Universiti Teknologi PETRONAS.
- Outcome Based Education & Teaching Approach, 25 May 2022 at Universiti Teknologi PETRONAS.
- Python for Data Analytics Workshop, 9 October 2021 at Universiti Teknologi PETRONAS.
- Moving Research Forward with ScienceDirect, 21 April 2021 at Universiti Teknologi PETRONAS.
- Microsoft Azure Data Science Workshop, UTHM, Batu Pahat, Johor, Malaysia.
- Deploying Hyper-Heuristic & Meta-Heuristic Algorithm Workshop, 25-26 December 2018 at Universiti Malaysia Pahang, Gambang, Pahang, Malaysia.

CONFERENCES & SYMPOSIUMS

- Presenter at the IAFOR International Conference on Education in Hawaii (IICE2023), 5-8 January 2023, Hawaii, United States.
- Presenter at the 2nd International Conference on Emerging Technologies and Intelligent Systems (ICETIS 2022), 2-3 September 2022 (Virtual Conference).
- Presenter at the International Conference on Computational Intelligence 2020 (ICCI 2020), 8-9 October 2020 (Virtual Conference).
- Presenter at the 4th International Conference on Soft Computing and Data Mining 2020 (SCDM 2020), 22-23 January 2020, Melaka, Malaysia.
- Presenter and Session Chair at the 3rd International Conference on Soft Computing and Data Mining 2018 (SCDM 2018), 6-7 February 2018, Johor Baharu, Malaysia.

SKILLS AND ABILITIES

Data Science Tools : Microsoft Power BI, Python, VS Code, Azure ML, KNIME Analytics.
Research Writing : Mendeley, EndNote, LaTeX, JabRef.
Others : Problem-solving, scrum, organizing & analytical thinking skills.

AWARDS & CERTIFICATES

Notable Awards

- King's Scout Award, Scouts Association of Malaysia, 2011.
- Best Tutor Award for Department of Computer & Information Sciences at the 2021 Postgraduate Appreciation Ceremony, Universiti Teknologi PETRONAS, 2021.
- Vice-Chancellor Award, Universiti Tun Hussein Onn Malaysia, 2017.
- The best undergraduate Final Year Project (FYP), Universiti Tun Hussein Onn Malaysia, 2017.
- Super Programmer, Malaysia Digital Economy Corporation (MDEC), 2015.

Other Awards

- Gold award for the invention of Performa.my at the Virtual International Research and Innovation Symposium and Exposition 2020 (RISE2020), Universiti Tun Hussein Onn Malaysia (UTHM).
- Platinum award in the International Invention, Innovation & Design Exposition for Built Environment and Engineering 2020 (IIBBEE2020), Universiti Teknologi MARA (UiTM).
- Gold award for the invention of Performa.my exhibited at the Virtual Research and Innovation Exhibition UniMAP (eREKA) 2020, Universiti Malaysia Perlis (UniMAP).
- Silver Award in UTHM Research and Innovation Fest 2017 (Student Category).

NON-ACADEMIC INVOLVEMENTS

- Head of the Publication Bureau 2014/2015 of Perwira Residential College Council, UTHM.
- Represented Malaysian Contingent in the 6th Malaysian-Thailand Border International Scouts Jamboree at the Pak Bang Scout Camp, Satun, Thailand.

COMPLETED PROJECTS

- ProofreadMyThesis.com: Developed the landing page for the website.
- MBA Universiti Tun Hussein Onn Malaysia: Upgraded the UI/UX of the website.
- Ghali Charity Foundation: Developed the official website.
- Johor i Care Society: Developed the official website.
- 3A Bundle: Developed the official website and executed a branding campaign.
- Performa.my: Developed a web application for performance satisfaction analysis.
- Platform Usahawan Johor Interaktif (PUJI): Prototyped a web application.
- SSM EzBiz upgrade: Upgraded the system for the Companies Commission of Malaysia (SSM) – with GATES IT Solution Sdn Bhd.
- KUIPSAS e-Campus system upgrade: Upgraded the e-Campus system for KUIPSAS – with GATES IT Solution Sdn Bhd.

MEMBERSHIP & VOLUNTARY WORKS

- Certified Graduate Technologist by the Malaysia Board of Technologists (MBOT).
- IEEE Graduate Student Member since 2021: <https://iee-collabratec.ieee.org/app/p/hafizulamz>



- IEEE Big Data Community.

- IEEE Young Professionals.
- An active member of Ubuntu Malaysia Local Community (LoCo) Team.
- Volunteer at Pertubuhan Kebajikan 'Johor i Care' Negeri Johor (Cancer Support Group).
- Volunteer at One Heart Team (Local Charity Organization in Parit Raja).

PUBLICATION REVIEWING EXPERIENCES

Journal Reviews

- Reviewer for the Journal of King Saud University - Computer and Information Sciences (JKSU-CIS).
 - 5 reviews between April 2023 and January 2024
- Reviewer for the Computers, Materials & Continua (CMC).
- Reviewer for the Computer Systems Science and Engineering (CSSE).
- Reviewer for the Journal of Applied Science, Technology and Computing (JASTEC), since 2024.
 - 1 review since January 2024
- Reviewer for the Journal of Soft Computing and Data Mining (JSCDM), since 2024.
 - 1 review since January 2024

Conference Reviews

- Reviewer for the 6th International Conference on Soft Computing and Data Mining (SCDM 2024), Putrajaya, Malaysia: 2 reviews.
- Technical Reviewer for The First International Conference on Artificial Intelligent and Autonomous System (i-CAIAS 2023), Virtual Conference. Member of the technical program committee.
- Technical Reviewer for the 9th International Conference on Computing and Informatics (ICOCI 2023). Member of the technical program committee.
- Technical Reviewer for the 2023 IEEE International Conference on Artificial Intelligence in Engineering and Technology (IICAET2023), Kota Kinabalu, Malaysia.
- Reviewer for the 8th International Conference on Software Engineering & Computer Systems 2023 (IEEE ICSECS 2023).
- Reviewer for the 5th International Conference on Soft Computing and Data Mining (SCDM 2022), Online Conference.
- Reviewer for the 5th International Conference on ICT in Education 2021 (ICTE 2021).

PUBLICATIONS

- Talpur, N., Abdulkadir, S. J., Akhir, E. A. P., Hasan, M. H., Alhussian, H., & **Abdullah, M. H. A.** (2023). A novel bitwise arithmetic optimization algorithm for the rule base optimization of deep neuro-fuzzy system. *Journal of King Saud University-Computer and Information Sciences*, 35(2), 821-842.
- **Abdullah, M. H. A.**, Aziz, N., Abdulkadir, S. J., Alhussian, H. S. A., & Talpur, N. (2023). Systematic Literature Review of Information Extraction from Textual Data: Recent Methods, Applications, Trends, and Challenges. *IEEE Access*.
- Aziz, N., Akhir, E. A. P., Abdulkadir, S. J., Alhussian, H. S. A., & **Abdullah, M. H. A.** (2023). Development of Analytical Thinking Using Flipped Classroom Approach for Big Data Analytics Courses. In *The IAFOR International Conference on Education – Hawaii 2023 Official Conference Proceedings 2023* (pp. 679-696). The International Academic Forum (IAFOR).
- **Abdullah, M. H. A.**, Aziz, N., Abdulkadir, S. J., Akhir, E. A. P., & Talpur, N. (2023). Event Detection and Information Extraction Strategies from Text: A Preliminary Study Using GENIA Corpus. In *International Conference on Emerging Technologies and Intelligent Systems* (pp. 118-127). Springer, Cham.

- Aziz, N., **Abdullah, M. H. A.**, Osman, N. A., Musa, M. N., & Akhir, E. A. P. (2023). Predictive Analytics for Oil and Gas Asset Maintenance Using XGBoost Algorithm. In *International Conference on Emerging Technologies and Intelligent Systems* (pp. 108-117). Springer, Cham.
- Talpur, N., Abdulkadir, S. J., Alhussian, H., Hasan, M. H., & **Abdullah, M. H. A.** (2022). Optimizing deep neuro-fuzzy classifier with a novel evolutionary arithmetic optimization algorithm. *Journal of Computational Science*, 64, 101867.
- N. Aziz, **M. H. A. Abdullah** and A. N. Zaidi, "Predictive Analytics for Crude Oil Price Using RNN-LSTM Neural Network," *2020 International Conference on Computational Intelligence (ICCI)*, Bandar Seri Iskandar, Malaysia, 2020, pp. 173-178.
- **Abdullah, M. H. A.**, Othman, M., Kasim, S., Saharuddin, S. S., & Mohamed, S. A. (2020, January). A Spiking Neural Networks Model with Fuzzy-Weighted k-Nearest Neighbour Classifier for Real-World Flood Risk Assessment. In *International Conference on Soft Computing and Data Mining* (pp. 222-230). Springer, Cham.
- **Abdullah, M. H. A.**, Othman, M., Kasim, S., & Mohamed, S. A. (2019). Evolving spiking neural networks methods for classification problem: a case study in flood events risk assessment. *Indonesian Journal of Electrical Engineering and Computer Science*, 16(1), 222-229.
- Mohamed, S. A., Othman, M., & **Abdullah, M. H. A.** (2019). A review on data clustering using spiking neural network (SNN) models. *Indonesian Journal of Electrical Engineering and Computer Science*, 15(3), 1392-1400.
- Othman, M., Mohamed, S. A., **Abdullah, M. H. A.**, Yusof, M. M., Mohamed, R. (2019). Clustering Analysis on the Personalised Modelling Framework of Temporal Data in Weka.
- **Abdullah, M. H. A.**, Othman, M., & Kasim, S. Comparative Analysis of Spatio/Spectro-Temporal Data Modelling Techniques. *Data Engineering And Information Security*.
- Othman, M., Mohamed, S. A., **Abdullah, M. H. A.**, Yusof, M. M., & Mohamed, R. (2018). A Framework to Cluster Temporal Data Using Personalised Modelling Approach. *Advances in Intelligent Systems and Computing*, 181-190.
- Kasim, S., Fudzee, M. F., Salamat, M. A., Ramli, A. A., Mahdin, H., & **Abdullah, M. H. A.** (2016). An improved computational framework using one stage filtration by incorporating knowledge in gene expression clustering. *Proceedings of the International Conference on Artificial Intelligence and Robotics and the International Conference on Automation, Control and Robotics Engineering - ICAIR-CACRE '16*.

Scan the QR code to view my LinkedIn profile:



*Referees are available upon request. Kindly, please mail to: hafizul94@gmail.com