

Curriculum Vitae

(Last Updated: May. 31, 2024)

Faris Hamdi Rizk

Department of Communications and
Electronics
Delta Higher Institute of Engineering
and Technology
Mansoura, 35111, Egypt
Email: CH2100350@dhiet.edu.eg

Experience

Undergraduate Research Assistant Jan. 2024 – Present
Machine learning and Metaheuristics Optimization Lab, Delta Higher Institute of
Engineering and Technology

EDUCATION

B.S. in Electronics and Communication Engineering Sep. 2021 – Jul. 2026
Delta Higher Institute of Engineering and Technology Mansoura, 35111, Egypt.

Research Interests

Artificial Intelligence
Machine learning, Computer Vision, Optimization

Technical Skills

- Computer vision
- Deep Learning
- Machine Learning
- Python
- LaTeX
- MS Office

Awards & Honors

2nd Place, GDG DevFest Mansoura Hackathon,
Mansoura University, Egypt

2023

Publications

(SoRTED BY YeaR)

JouRnaL ARTICLES

- [1] Rizk, F. H., Elshabrawy, M., Sameh, B., Mohamed, K., & Zaki, A. M. (2024). Optimizing Student Performance Prediction Using Binary Waterwheel Plant Algorithm for Feature Selection and Machine Learning. *Full-Length Article, Volume 7*(Issue 1), 19–37.
<https://doi.org/10.54216/JAIM.070102>
- [2] Rizk, F. H., Saleh, A., Elgaml, A., Elsakaan, A., & Zaki, A. M. (2024). Exploring Predictive Models for Students' Performance in Exams: A Comparative Analysis of Regression Algorithms. *Full-Length Article, Volume 7*(Issue 1), 38–52. <https://doi.org/10.54216/JAIM.070103>
- [3] Towfek, S. K., Khodadadi, N., Abualigah, L., & Rizk, F. H. (2024). AI in Higher Education: Insights from Student Surveys and Predictive Analytics using PSO-Guided WOA and Linear Regression. *Journal of Artificial Intelligence in Engineering Practice, 1*(1), 1–17.
<https://doi.org/10.21608/jaiep.2024.354003>
- [4] Abed, A. H., Rizk, F. H., Zaki, A. M., & Elshewey, A. M. (2024). The Applications of Digital Transformation Towards Achieving Sustainable Development Goals: Practical Case Studies in Different Countries of the World. *Full-Length Article, Volume 7*(Issue 1), 53–66.
<https://doi.org/10.54216/JAIM.070104>
- [5] Ali, M. Z., Abdullah, A., Zaki, A. M., Rizk, F. H., Eid, M. M., & El-Kenway, E. M. (2024). Advances and Challenges in Feature Selection Methods: A Comprehensive Review. *Full-Length Article, Volume 7*(Issue 1), 67–77. <https://doi.org/10.54216/JAIM.070105>
- [6] Farag, A. A., Ali, Z. M., Zaki, A. M., H. Rizk, F., Eid, M. M., & EL-Kenawy, E.-S. M. (2024). Exploring Optimization Algorithms: A Review of Methods and Applications. *Full-Length Article, Volume 7*(Issue 2), 08–17. <https://doi.org/10.54216/JAIM.070201>
- [7] Rizk, F. H., Arkhstan, S., Zaki, A. M., Kandel, M. A., & Towfek, S. K. (2023). Integrated CNN and

Waterwheel Plant Algorithm for Enhanced Global Traffic Detection. *Full-Length Article, Volume 6*(Issue 2), 36–45. <https://doi.org/10.54216/JAIM.060204>

[8] El-Kenawy, E.-S. M., Abdelhamid, A. A., Ibrahim, A., Eid, M. M., Rizk, F. H., & Zaki, A. M.

(2023). Time Series Forecasting of Cryptocurrency Prices with Long Short-Term Memory Networks. *Full-Length Article, Volume 2*(Issue 2), 18–26. <https://doi.org/10.54216/FinTech-I.020202>

[9] Kandel, M. A., Rizk, F. H., Hongou, L., Zaki, A. M., Khan, H., & El-Kenawy, E.-S. M. (2023).

Evaluating the Efficacy of Deep Learning Architectures in Predicting Traffic Patterns for Smart City Development. *Full-Length Article, Volume 6*(Issue 2), 26–35. <https://doi.org/10.54216/JAIM.060203>

