Curriculum Vitae

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Faris Hamdi Rizk

Department of Communications and
Electronics
Delta Higher Institute of Engineering and
Technology
Mansoura, 35111, Egypt
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My Website, Google Scholar, LinkedIn, GitHub

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
Deep Learning, Optimization, Machine Learning Theory

Technical Skills

- Machine Learning
- Scientific Writing
- Python & C
- LaTeX
- Data Analysis
- Signal Processing and Electronics

Personal skills

- Analytical Thinking
- Problem Solving
- Team Work
- Curiosity And Continuous Learning
- Adaptability And Flexibility
- Work Independence Ability
- Self-Motivated

Volunteering Experience

Graphic Design Head   Sep. 2021 - Jul. 2026
Google Developer Student Club (GDSC),
Delta Higher Institute of Engineering and Technology.

Awards & Honors

2nd Place, GDG DevFest Mansoura Hackathon,   Dec. 2023
Mansoura University, Egypt

Languages

- English (B2)
- Arabic (native)

Publications

Conference Articles

[1] Abdelmalak, M. E. S., Khodadadi, N., Zaki, A. M., Eid, M. M., Rizk, F. H., Ibrahim, A., Abdelhamid, A. A., Abualigah, L., & El-kenawy, E.-S. M. (2024). Pothole Detection in Asphalt Roads: A Comprehensive Approach for Enhanced Road Maintenance and Safety with AlexNet Model. *2024 International Telecommunications Conference (ITC-Egypt)*, 269–274.

[2] Rizk, F. H., Mohamed, M. E., Sameh, B., Zaki, A. M., Eid, M. M., & El-kenawy, E.-S. M. (2024). Enhancing Student Performance Prediction with Greylag Goose Optimization Algorithm. *2024 International Telecommunications Conference (ITC-Egypt)*, 32–37.

[3] Sherif, K., Rizk, F. H., Zaki, A. M., Eid, M. M., Khodadadi, N., Ibrahim, A., Abdelhamid, A. A., Abualigah, L., & El-Kenawy, E.-S. M. (2024). Revolutionizing Oil Spill Detection: A Machine Learning Approach for Satellite Image Classification. *2024 International Telecommunications Conference (ITC-Egypt)*, 245–250.

Journal Articles

[1] 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.

[2] 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.

[3] 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.