

# Esraa Mokhtar Mohamed

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- Profile** Teaching Assistant and early-career researcher in AI and network security, with a focus on deep-learning-based intrusion detection and network traffic analysis. I have defended my master’s research on AI-based intrusion detection for communications network security and I am seeking PhD opportunities in AI and cybersecurity.
- Education** **M.Sc. Research — 2026**  
Thesis: AI-Based Intrusion Detection for Communications
- B.Sc. in Computer Systems Engineering — 2017-2022**  
Faculty of Engineering, Al-Azhar University, Cairo
- Dissertation** “AI-Based Intrusion Detection for Communications Network Security”  
Focused on deep-learning-based intrusion detection for communication networks, with emphasis on class imbalance, temporal modeling, and deployment-oriented evaluation using CNN-LSTM and CNN-BiLSTM framework
- Research** **Electrical Engineering Department, Faculty of Engineering, Qena University**  
PM.Sc. Researcher  
Project: AI-Based Intrusion Detection for Communications Network Security
- Publications**
1. Mohamed Hamed, Esraa Mokhtar, Nahla Fathy Ahmed Omran, and Ahmed Abdel-Baset Donkol. “Enhancing Network Intrusion Detection with CNN-LSTM.” *SVU-International Journal of Engineering Sciences and Applications*, 6(2):138–146, 2025.
  2. Mohamed Hamed, Esraa Mokhtar, Nahla F. Omran, and Ahmed Abdel-Baset Donkol. “Towards Practical Network Attack Detection: A CNN-BiLSTM Framework with Calibration-Based Thresholding on CICIDS2017.” *Advanced Sciences and Technology Journal*, 3(2):1–17, 2026.

Experience	<p><b>Teaching Assistant, Faculty of Computers and Information, South Valley University</b> — Jun 2023–Present</p> <p>Teaching support, lab assistance, and student mentoring in computing-related courses.</p> <p>Ongoing academic involvement in AI-based network security research.</p> <p><b>Front End Developer, Al-Rowad IT Company</b> — Sep 2022–Sep 2023</p> <p>Developed web interfaces and implemented front-end solutions for production projects.</p>
Technical Skills	<p><b>Research/AI:</b> Intrusion detection, deep learning, CNN, LSTM, BiLSTM, data analysis, model evaluation, threshold calibration.</p> <p><b>Programming:</b> JavaScript, React.js, Next.js, HTML5, CSS3.</p> <p><b>Academic:</b> Academic writing, literature review, presentation preparation, teaching support.</p>
Languages	Arabic (Native), English (Very Good).