HABIBA ASSEM SHARAF

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EDUCATION

Master of Science in Computer Science **GPA: 4.00**
College of Computing and Information Technology, AASTMT
2023 – 2026

Bachelor of Science in Computer Science **GPA: 3.88**
College of Computing and Information Technology, AASTMT
Computer Science Department
2019 – 2023

EXPERIENCE

Teaching Assistant (Full-Time) **Feb 2026 – present**
College Computing and Information Technology, AASTMT (Smart Village Campus, Cairo)

Teaching Assistant (Full-Time) **Oct 2023 – Feb 2026**
College of Artificial Intelligence, AASTMT (Alamein Campus)

- Assist in lectures, conduct lab sessions, grading, and supporting students' learning.
- Teaching experience in Cloud Computing, Digital Logic, OOP, Networks, Cybersecurity, Cognitive Computing, HPC, AI Fundamentals, Embedded Systems, and Computer and other Computer Science and AI-related courses.
- Software integration for Pepper and NAO humanoid robots.
- Participating in exam committee, registration and academic advising committee, semester course scheduling, and quality assurance committee tasks.
- Relevant graduate courses include Computability and Complexity Theory, Design and Analysis of Parallel Algorithms, Distributed Systems, Advanced AI, Advanced Database, Research Methods in Computer Science, and Theory of Programming Languages.

CERTIFICATIONS AND TRAINING

- ITI Java SE (60h): Developing applications using Java programming.
- ITI Open Source Development (120h): HTML/CSS, JavaScript, Node.js, React, MongoDB.
- IBM Skills Academy: Artificial Intelligence Analyst (Explorer Award).

RESEARCH & AWARDS

- Published at the 35th International Conference on Computer Theory and Applications (ICCTA 2025).
- Awarded the Female Researcher Award at ICCTA 2025 for outstanding research.
- Thesis-based paper: *"Time-Variant Transformer for Predicting Alzheimer's Disease Progression from Longitudinal Multimodal Data."*

PROJECTS

Smart Agriculture Robot Powered by AI

- Real-time plant detection using CNN models on live video.
- Autonomous motor control via Arduino to navigate toward plants.
- Flutter mobile app for robot control and Firebase data storage.

Instagram Clone (Node.js / React)

- Implemented account system, follow/unfollow, blocking, posting, and timeline feed.

Bank System (Java, MySQL)

- Full banking simulation with ATM transactions.
- Complete MySQL CRUD data management.

Noor Robot (Python CV/NLP)

- Developed computer vision modules for detection and recognition.
- Implemented NLP processing for speech, intent recognition, and basic dialog.

TECHNICAL SKILLS

- **Languages:** JavaScript, Python, Java, HTML/CSS.
- **Robotics/AI:** Pepper, NAO, Noor; Python CV & NLP.
- **Databases:** Oracle, PostgreSQL, MySQL.
- **DevOps/Cloud:** Docker, Kubernetes, AWS.