

MONA ABDELAZIM

ASSISTANT PROFESSOR- AIN SHAMS UNIVERSITY

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CAREER SUMMARY

Assistant Professor of Computer and Information Sciences with extensive experience in teaching undergraduate and postgraduate courses, supervising student projects, and conducting applied research in Artificial Intelligence, Machine Learning, and Natural Language Processing. Actively engaged in bridging academic instruction with real-world AI applications, with a strong commitment to student-centered learning in international and interdisciplinary academic environments.

WORK EXPERIENCE

Assistant Professor & Technical Team Lead

Ain Shams University | 2024-Present

- Deliver undergraduate and postgraduate courses in Artificial Intelligence, Machine Learning, and Natural Language Processing.
- Supervise graduation projects, master's students, and junior researchers.
- Lead applied research initiatives in AI, NLP, and robotics.
- Integrate recent advances in Generative AI and Large Language Models into teaching and research activities.
- Available for part-time teaching appointments in transnational and international academic programs.

Senior NLP Engineer

Ain Shams University | 2022-2024

- Designed and deployed end-to-end NLP systems focused on Arabic language processing and dialectal variation.
- Developed machine learning and deep learning models for text classification, sentiment analysis, NER, and language modeling.
- Utilized PyTorch, TensorFlow, Hugging Face Transformers, and spaCy in research-driven projects.

Assistant Lecturer

Ain Shams University | 2017-2023

- Delivered labs and tutorials for Calculus, NLP, and Introduction to Programming courses.
- Supervised graduation and course projects in AI and NLP.
- Mentored junior teaching assistants and supported course coordination.

Teaching Assistant

Ain Shams University | 2010-2017

- Conducted undergraduate labs and tutorials for calculus and Introduction to Programming Courses.
- Supported course instructions and student assessment.

TEACHING EXPERIENCE (SELECTED COURSES)

- Calculus II
- Introduction to Programming
- Natural Language Processing
- Big Data Analytics
- Speech and Language Processing
- Selected topics in Multimedia
- Graduation Project Supervision (AI & NLP)

EDUCATION AND CERTIFICATION

- **PhD. in Computer and Information Sciences** | 2023
Faculty of Computer and Information Sciences, Ain Shams University
Thesis: An Enhanced Approach for Arabic Speech Recognition systems.
- **MSc in Computer and Information Sciences** | 2017
Faculty of Computer and Information Sciences, Ain Shams University
Thesis: A Content Based Search Engine for Arabic Audio Files
- **BSc in Computer and Information Sciences** | 2008
Faculty of Computer and Information Sciences, Ain Shams University

TECHNICAL SKILLS

- **Core Areas:** Artificial Intelligence, Machine Learning, Natural Language Processing, Speech Processing.
- **Programming:** Python, C++, C#
- **Frameworks & Tools:** PyTorch, TensorFlow, Hugging Face Transformers, scikit-learn, spaCy, Jupyter Notebooks.
- **Academic Skills:** Curriculum design, student assessment, research supervision, academic writing.

ENGLISH LANGUAGE PROFICIENCY

- **ITEP Academic: Score 4.3 / 6.0**
- Full professional proficiency in English
- Extensive experience in academic teaching, research writing, and international conference participation in English

PROFESSIONAL DEVELOPMENT

- Set Up an App Dev Environment on Google Cloud | Google | Online 2025
- Microsoft Azure AI Fundamentals (AI-900) | Microsoft | Online 2025
- Foundational AI Boot Camp | Microsoft | Cairo, Egypt 2024
- Generative AI Professional Training | MCIT | Cairo Egypt 2024
- Leaders Preparation Program | Ain Shams University | Cairo, Egypt 2023
- Natural Language Processing Nanodegree | Udacity | Online 2020
- Machine Learning Specialist | Epsilon AI Academy | Cairo, Egypt 2019

SELECTED PROJECTS

1. **Priva (2025):** An AI-empowered HR Assistant to automatically conduct candidate assessments from video interviews.
2. **Wish A-Pic (2025):** An AI-empowered text to image generation using a prompt enhancement technique.
3. **Whisper Tales (2025):** An AI-Empowered mobile application for children's stories generation.
4. **Nile-Lingo (2025):** An Egyptian to English speech translator.
5. **Cyber bullying detection in Arabic Text (2024):** An online platform equipped with deep learning models to find users bullying on the platform.
6. **AI-Synthesized Speech detection (2024):** A deep learning based fake audio detection system in Egyptian audios.
7. **Hieroglyphic language identification in Ancient Egyptian Manuscripts (2024):** A computer vision-based system to find a label hieroglyphic symbol from ancient Egyptian manuscripts images.

CONFERENCES & ACADEMIC PARTICIPATION

- **IEEE International Conference on Intelligent Computing and Information Systems (ICICIS25),** Cairo, Egypt
Author • Session Chair • Conference Organizing Committee Participant
Paper Title: Wish a Pic: An AI-Powered Platform for Automated Visual Content Generation
- **10th Annual Scientific Conference of Diagnostic, Interventional Radiology and Molecular Imaging, Ain Shams University (2025)**
Session Presenter
Presentation title: Transforming Medical Knowledge with Large Language Models
- **13th International Ain Shams University Congress (2025)**
 Session Presenter
 Presentation Title: From Research to real world Impact: Innovation Pathways at FCIS-ASU: Shams Robot
- **IEEE International Conference on Intelligent Computing and Information Systems (ICICIS23),** Cairo, Egypt
Author • Session Chair • Conference Organizing Committee Participant
Paper Title: SHAMS 2.0: Sustainable Humanoid Assisting Modular System for Medical Field
- **International Conference on Advanced Machine Learning Technologies and Applications (AMLTA)**
Paper Presenter • Author
Paper Title: Spoken Arabic Digits Recognition System using CNN.
- **International Conference on Informatics and Systems (INFOS)**
Paper Presenter • Author
Paper Title: An Enhanced Arabic Phonemes Classification Approach
- **Academic Conference Reviewer**

LIST OF PUBLICATION

1. "Wish a Pic: An AI-Powered Platform for Automated Visual Content Generation," *2025 Twelfth International Conference on Intelligent Computing and Information Systems (ICICIS),* Cairo, Egypt (Accepted)

2. Azim, M. A., et al. (2023). SHAMS 2.0: Sustainable Humanoid Assisting Modular System for Medical Field. ICICIS 2023, IEEE.
3. Azim, M. A., Hussein, W., & Badr, N. L. (2023). Using Character-Level Sequence-to-Sequence Model for Word Level Text Generation to Enhance Arabic Speech Recognition. IEEE Access.
4. Abdelazim, M., Hussein, W., & Badr, N. (2022). Automatic Dialect identification of Spoken Arabic Speech using Deep Neural Networks. IJICIS.
5. Azim, M. A., Hussein, W., & Badr, N. L. (2021). Spoken Arabic Digits Recognition System using CNN. AMLTA.
6. M. A. Azim, W. Hussein and N. L. Badr, "A Hierarchical Approach for Arabic Phonemes Classification," *2021 Tenth International Conference on Intelligent Computing and Information Systems (ICICIS)*, Cairo, Egypt, 2021, pp. 99-104,
7. M. A. Azim, A. Aziza Hamid, N. L. Badr, and M. Tolba, "Large vocabulary Arabic continuous speech recognition using tied states acoustic models," *Asian Journal of Information Technology*, vol. 18, no. 2, pp. 49–56, 2019.
8. Azim, M.A., Hamid, A.A.A., Badr, N.L., Tolba, M.F. (2017). Tree-Based HMM State Tying for Arabic Continuous Speech Recognition. In. *Advances in Intelligent Systems and Computing*, vol 533. Springer, Cham.
9. Mona A. Azim, Nagwa L. Badr, and Mohamed F. Tolba. 2016. An Enhanced Arabic Phonemes Classification Approach. In *Proceedings of the 10th International Conference on Informatics and Systems (INFOS '16)*.