

Ahmed Salem

Computer Science PhD Student | Data Scientist | AI Researcher

Education

PhD in Computer Science (In Progress) — Sabanci University, Turkey

M.Sc. in Data Science — Sabanci University, Turkey

Thesis: "Active Learning for Drug Blood-Brain Barrier Permeability Prediction"

M.Sc. in Computer Science — King Fahd University of Petroleum and Minerals (KFUPM), Saudi Arabia

Thesis: "Predicting MicroRNAs-Diseases Associations using Protein Domain Data: A Graph-based Approach"

B.Sc. in Computer Science (Honors) — Alexandria University, Egypt

Teaching Experience

- Course Instructor, Sabanci University — Programming Fundamentals (CS201)
- Teaching Assistant, Sabanci University — Advanced Programming (CS204), Computational Thinking (IF100), Programming Fundamentals (CS201)
- ACM-ECPC Programming Coach, Alexandria University — Coached students for Egyptian Collegiate Programming Contest

Publications

- A. Salem, N. Mustafaoğlu, Ö. Taştan — "Active Learning for Predicting Drug Permeability Across the Blood-Brain Barrier", SIU 2025, Istanbul, Turkey
- A. Elmoselhy, E. Ramadan — "Utilizing Graph Database for Inferring Domain-Disease Associations", ICAECT 2020, Madinah, Saudi Arabia
- A. Elmoselhy, E. El-Alfy — "On DNA Cryptography for Secure Data Storage and Transfer", 3rd Smart Cities Symposium, Bahrain, 2020

Awards & Recognitions

- SIU 2025 — 3rd Place, Biomedical Signal/Image Processing & Communications Category, 33rd IEEE Signal Processing and Communications Applications Conference, Istanbul, Turkey
Paper: "Active Learning for Predicting Drug Permeability Across the Blood-Brain Barrier"
- NASA Space Apps Cairo Hackathon — 1st Place (Local Winner), Human Category
Created a 3D simulation game for astronauts living on Mars during a 2-day hackathon
- ESSAC Competition, Alexandria University — 1st Place
Developed an Android game simulating life on lava tubes on Mars for astronaut mission training

Professional Development

- Learner-Centered Approaches in College STEM Education — Sabanci University