# ROFAIDAH WALEED ALSHAMY

**JUNIOR AI ENGINEER**

## CONTACT


**EMAIL**
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**LOCATION**
Cairo, Egypt


## CONNECT

LinkedIn GitHub

## SKILLS

- Python
- Machine Learning
- Deep Learning
- Computer Vision
- PyTorch • TensorFlow
- CNN · ANN · RNN
- NLP
- Transformers · LLMs
- Scikit-learn
- OpenCV
- NumPy · Pandas · Matplotlib
- EDA
- SQL
- Flask (Model Deployment)
- Statistics & Probability
- GitHub · Kaggle
- Model Evaluation
- Problem Solving
- Microsoft Excel
- Microsoft PowerPoint
- Power BI

## LANGUAGES

**Arabic**
Native

**English**
Professional Working Proficiency

## PROFILE

Computer Science graduate specializing in AI, currently working as a Teaching Assistant at the Higher Institute for Computer Science and Information Systems, Fifth Settlement. Hands-on experience building deep learning systems for computer vision. Completed a 240-hour AI diploma (Python, ML, DL) and led model building and deployment on an A+ graduation project — an AI-powered fashion outfit compatibility system built with ResNet-50 and PyTorch. Eager to apply strong analytical and problem-solving skills to real-world AI/ML roles.

## WORK EXPERIENCE

### Teaching Assistant

Higher Institute for Computer Science and Information Systems, Fifth Settlement • *Sep 2026 – Present*

- Support delivery of undergraduate Computer Science courses through lab sections, tutorials, and practical sessions.
- Assist students with course material and technical issues, and grade assignments with constructive feedback.
- Hold office hours to mentor students and guide them through coursework and project work.

## EDUCATION

### B.Sc. in Computer Science — English Section

Higher Institute for Computer Science and Information Systems, Fifth Settlement • *May 2026*

- Graduation Project Grade: A+
- Overall Grade: B — GPA: 3.38
- Graduation Project: "Intelligence Outfit Recommendation System" — an AI-powered mobile application that evaluates fashion outfit compatibility using deep learning.

## GRADUATION PROJECT (A+)

Designed and developed an AI system (with a 7-member team, supervised by Dr. Shereen Ahmed Hussien) that automatically evaluates outfit compatibility from clothing images and provides an interpretable compatibility score, along with a diagnosis and revision module that identifies and replaces mismatched items. Responsible for building and deploying the deep learning model.

- Built and deployed a multi-scale feature extraction pipeline using a pretrained ResNet-50 backbone and a custom Multi-Layer Comparison Network with type-conditioned similarity masks (PyTorch).
- Trained, evaluated, and deployed the compatibility prediction model on the Polyvore Outfits dataset (21,889 outfits), achieving 0.93 Validation AUC and 87% test accuracy.
- Implemented a gradient-based diagnosis module to identify incompatible items and an iterative revision loop to recommend replacements.
- Contributed to system analysis and design (use case, class, and sequence diagrams) and literature review of 7 related fashion-compatibility research papers.

## TRAINING & CERTIFICATIONS

### Artificial Intelligence Diploma (240 Hours)

INSTANT Software Solution • *Mar 2025 – Aug 2026 | Completed*

- Covered Python programming, mathematics for AI, data analysis (NumPy, Pandas, Matplotlib), Machine Learning, and Deep Learning fundamentals.
- Completed hands-on mini-projects applying ML/DL concepts to real datasets, including data preprocessing, model building, and evaluation.

## KEY STRENGTHS

- Analytical & detail-oriented problem solver
- Strong foundation in applied mathematics for AI
- Effective team collaboration on technical projects
- Fast learner, keeps up with new AI research