

AHMED ISMAIL ABDUALLAH

JR AI ENGINEER

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Junior AI Engineer specialized in Deep Learning, End-to-End Model Development, and MLOps. Designed and implemented complete AI pipelines from data preprocessing and feature engineering to model training, evaluation, and deployment. Built Computer Vision and NLP models using TensorFlow and Scikit-learn, applying hyperparameter tuning and optimization techniques. Experienced in experiment tracking and model lifecycle management using MLflow. Focused on delivering scalable, production-ready AI systems that create measurable impact.

KEY ACHIEVEMENTS

- **Tree Clinic | Aug 2025 – Present Associated with Zagazig University**
 - Smart mobile application that detects tree diseases using leaf images and AI models. The system identifies diseases, recommends organic and chemical treatments, and connects recommendations to an integrated in-app marketplace. Includes an intelligent agricultural assistant to support farmers in managing tree health.
- **Exo AI | Nov 2025 – Nov 2025 Associated with Zagazig University**
 - AI-powered platform that automates exoplanet classification using NASA's Kepler, K2, and TESS datasets. Integrated Python ML models with a .NET 9 API and Flutter web interface to deliver an end-to-end AI solution.
- **Movie Analysis | Jul 2025 – Jul 2025**
 - Intelligent system leveraging Data Science and AI to analyze movies and audience feedback. Performed genre classification, sentiment analysis, audience engagement tracking, and rating trend analysis to extract actionable insights.

PROFESSIONAL EXPERIENCE

Machine Learning Engineering Intern – Digital Egypt Pioneers Initiative (DEPI) Jan 2026 – Present

- Designed and implemented end-to-end AI pipelines from preprocessing to deployment.
- Developed deep learning models for Computer Vision and NLP applications.
- Applied model evaluation, hyperparameter tuning, and optimization techniques.
- Managed experiments and model tracking using MLflow.

Data Science Intern – almentor Jun 2025 – Dec 2025

- Conducted exploratory data analysis and built predictive machine learning models.
- Applied statistical analysis and feature engineering to improve performance.
- Delivered structured insights using data visualization and reporting techniques.

EDUCATION

Bachelor of Technology in Computer Science Zagazig University Aug 2022 – Exp: Jul 2026

Computer Science and Information of Zagazig University

- Specialized in Computer Science and Artificial intelligence.

SKILLS

- Programming: Python, SQL
- Machine Learning: Supervised & Unsupervised Learning, Model Evaluation, Optimization
- Deep Learning: CNNs, RNNs, Transformers (TensorFlow)
- Data Science: NumPy, Pandas, Matplotlib, Scikit-learn, EDA & Feature Engineering
- MLOps: MLflow, Hugging Face, Model Deployment & Monitoring
- Cloud: Azure AI Fundamentals