

AMR YASSER

MLOps Engineer

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EDUCATION

University of Science and Technology, Zewail City

B.Sc. in Computational Science and AI

Sep 2023 – Expected Jun 2027

Concentration: Data Science and Artificial Intelligence

WORK EXPERIENCE

Prodigy InfoTech Sep 2024 – May 2025

Remote

Machine Learning Intern

- Developed and deployed 5 production-ready computer-vision and NLP models, improving average accuracy by 15% compared to prior benchmarks.
- Designed end-to-end pipelines from data ingestion and preprocessing to model training and serving using Python, scikit-learn, and TensorFlow.
- Implemented MLOps best practices: version control (Git), CI/CD workflows, Docker containerization, and experiment tracking, reducing deployment time by 40%.

Zewail City University Jan 2024 – May 2025

Zewail City, Egypt

Junior Teaching Assistant[†]

- Mentored 300 undergraduates in Linear Algebra & Data Acquisition, leading problem-solving workshops and one-on-one coaching to enhance students' analytical skills and academic performance.

TECHNICAL PROJECTS

- **Intrusion Detection on Kaggle:** Developed an end-to-end ML pipeline to classify network-traffic into benign, DDoS, DoS, Mirai, Recon, and MITM. Responsibilities included data cleaning; feature engineering (rate-ratio features, payload entropy); class-imbalance handling via SMOTE and ensemble techniques; and hyperparameter tuning with Optuna. Achieved a private score of 91.63% and public score of 91.46%, achieved 2nd place out of 40+ teams.
- **ML for Network Intrusion Detection:** Architected a live packet-processing pipeline with Scapy & pandas, engineered temporal and payload-based features, trained autoencoders & isolation forests for anomaly detection, and dockerized Flask APIs for model serving in production-like environments.
- **Data Governance Workflow:** Designed a CI/CD-driven data lifecycle pipeline using DVC & GitHub Actions; implemented encryption and compliance reporting (GDPR/CCPA/HIPAA) to ensure auditability and data security.
- **Deep Learning Journal:** Documented and reproduced CNN Transformer experiments in Jupyter, leveraging PyTorch Lightning TF-Keras with WeightsBiases for streamlined collaboration.

TECHNICAL SKILLS

- **Languages & Databases:** Python, SQL, R, NoSQL, C++, Java, JavaScript
- **Frameworks & Tools:** scikit-learn, TensorFlow, Keras, PyTorch, MLflow, Airflow
- **DevOps & Infra:** Docker, Kubernetes, Terraform, Git, GitHub Actions, DVC, Jenkins, Bash