Rola Islait

AI Engineer at TrAIngle AI, Student, Researcher

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Profile

Driven student passionate about artificial intelligence and machine learning, with a growing portfolio that spans competitive data science, published research, and real-world AI product development. Winner of the WiDS Global Datathon 2026 (High School Track) and the first high school student from Jordan to receive this international recognition. Co-author of an accepted research paper applying SciBERT and Graph Neural Networks to detect AI-generated scientific content. Has completed a wide range of specialized courses in deep learning, computer vision, generative AI, and reinforcement learning from institutions including Stanford University, DeepLearning.AI, IBM, Meta, and the University of Michigan. Currently working as an AI Engineer at TrAIngle AI, developing and validating AI-driven software tools. Combines strong self-directed technical learning with hands-on experience in research, software quality assurance, and security testing.

Education

Secondary School — Jordan *2025 – Present*

11th Grade Student *Expected Graduation: 2027*

Honors & Awards

Winner, WiDS Global Datathon 2026 Challenge — High School Track *2026*

- Achieved a top ranking on the competition's Kaggle leaderboard (385th/1,754 globally) and was confirmed as the high school track winner by WiDS Worldwide and Kaggle.
- First high school student in Jordan to receive this award at the global level.
- Awarded an official winner's certificate; invited to participate in the WiDS Winner's Call.

3rd Place, Regional Robotics & AI Competition — Amman Arab University *2026*

- Secured 3rd place presenting *ResearchNet*, held in collaboration with the IEEE Jordan Section.
- Competed as an 11th-grade student against university students and researchers from multiple Arab countries.

1st Place (Environment, Water, and Energy Track), AI Sparks Hackathon — Princess Sumaya University for Technology *May 2025*

- Won first place for *AirQualityAI*, a project focused on predicting air quality.

Publications & Research

ResearchNet: A Novel Framework for Detecting AI-Generated Scientific Content using SciBERT and Graph Neural Networks *2026*

First Author — Paper accepted for presentation at AEECT 2026

- Conceptualized, designed, and developed the entire research framework combining SciBERT embeddings with Graph Neural Networks to detect AI-generated scientific text.
- **IEEE Jordan Student Paper Contest:** Selected for presentation and publication as one of only 33 accepted papers out of 110 rigorous submissions (Top 30% acceptance rate).
- To be published in IEEE Xplore and indexed in Scopus.
- Authored the full conference paper, handled LaTeX formatting, and ensured strict compliance with IEEE-style technical requirements.

Competitive Data Science

BYU Locating Bacterial Flagellar Motors 2025 (Kaggle) *2025*

- Ranked **109th out of 1,136** teams globally (Top 10%). Developed machine learning models to identify the

presence and location of flagellar motors in 3D reconstructions of bacteria.

WiDS Datathon 2025 Global Challenge (Kaggle) *2025*

- Ranked **156th out of 1,075** teams globally (Top 15%). Developed model to predict both an individual's sex and their ADHD diagnosis.

Yale/UNC-CH Geophysical Waveform Inversion (Kaggle) *2025*

- Ranked **292nd out of 1,365** teams. Developed physics-guided machine learning models to solve full-waveform inversion problems.

NeurIPS Open Polymer Prediction 2025 (Kaggle) *2025*

- Ranked **412th out of 2,240** teams. Participated in the prestigious NeurIPS conference competition track, Predicting polymer properties with machine learning to accelerate sustainable materials research.

Stanford RNA 3D Folding (Kaggle) *2025*

- Ranked **593rd out of 1,516** teams. Developed machine learning models to predict an RNA molecule's 3D structure from its sequence.

Experience

AI Engineer — TrAIngle AI *Feb 2026 – Present*

- Fixed critical security vulnerabilities in production software, including an access-control issue.
- Built automated PII detection with a human-in-the-loop review step.
- Designed a subscription and billing system end-to-end, integrating a third-party payment provider.
- Built user-facing interfaces in React.
- Authored the product's Privacy Policy and Terms of Service.
- Contributed to machine-learning research, model development, and evaluation.
- Supported platform and DevOps engineering, including testing, QA, and release preparation.
- Maintained technical documentation across the codebase.
- Worked on data- and policy-related engineering tasks.
- Collaborated on integrating machine-learning models into user-facing features.

Certifications

- **Deep Learning with PyTorch** - IBM - June 2025
- **Build Basic Generative Adversarial Networks (GANs)** - DeepLearning.AI - June 2025
- **Advanced Learning Algorithms** - DeepLearning.AI & Stanford University - March 2025
- **Programming in Python** - Meta — February 2025
- **Build Better Generative Adversarial Networks (GANs)** - DeepLearning.AI - January 2025
- **Developing Back-End Apps with Node.js and Express** - IBM - 2025
- **Deep Learning and Reinforcement Learning** - IBM - December 2024
- **Convolutional Neural Networks in TensorFlow** - DeepLearning.AI - December 2024
- **Exploratory Data Analysis for Machine Learning** - IBM - November 2024
- **Python Data Structures** - University of Michigan - November 2024
- **Supervised Machine Learning: Regression and Classification** - DeepLearning.AI & Stanford University - September 2024
- **ICDL (International Computer Driving License)** - ICDL
- **Advanced Databases** - ICDL - 2024
- **Advanced Documents** - ICDL
- **Advanced Presentation** - ICDL
- **Advanced Spreadsheet** - ICDL

- **IT Security** - ICDL
- **Digital Marketing** - ICDL
- **Image Editing** - ICDL - 2024
- **Web Editing** - ICDL - 2024

SKILLS

- **Programming & Data Science:** Python, machine learning , model optimization, computer vision
- **Web Development:** HTML, CSS, JavaScript, React, Node.js, RESTful APIs
- **Deep Learning:** PyTorch, TensorFlow, Generative Adversarial Networks (GANs), Reinforcement Learning
- **Research & Writing:** LaTeX/IEEE technical writing, research paper preparation, technical reporting
- **Software Quality & Security:** UI/UX review, functional and security testing, bug identification
- **Languages:** Arabic (native), English