Ishraq Tariq Al-Dagamseh

Computer Science Lecturer | AI & Data Science Educator | ML Researcher | Real-World & Academic

Experience

Email: ishraq500@gmail.com **Tel**: +971505219688
LinkedIn: linkedin.com/in/ishraq-t-al-dagamseh-51aa7a20a **Address**: UAE-Dubai
GitHub: https://github.com/ishraq-dagamseh
Instagram:https://www.instagram.com/artificial_intelligence_info24?igsh=Mm81MzlheGprcXo4&utm_ source=qr

---

Summary

Highly motivated and skilled computer scientist with a Master's degree in Computer Science and a strong passion for Artificial Intelligence, Data Science, and Analytics. Proven ability to apply theoretical knowledge to practical applications, as demonstrated through research publications, diverse AI/Data Science projects, and participation in Kaggle competitions. Eager to contribute expertise and contribute to a dynamic team in the AI/Data Science field.

SKILLS SUMMARY

- **Languages:** python, JAVA.
- **Frameworks: Pandas,** Numpy, Scikit-Learn, Matplotlib, seaborn, Tensorflow, Keras, torch, cv2.
- **Platforms:** Jupyter Notebook, Visual Studio Code, NetBeans, Kaggle, spyder, GitHub, Scratch 3, Hugging Face, Roboflow.
- **Tools:** Mendeley Refernce Manager, MS-word, Ms-Excel, PowerPoint, Prezi, Canva, CVAT (Annotation Tool).
- **Meeting platforms:** Zoom, Microsoft teams.
- **Experience fields:** Scientific Research, Artificial Intelligence, Deep learning Machine Learning, Computer vision, Data Analytics, Data Science, programming.
- **Soft Skills:** Strong organizational and time- management skills, teamwork and communication skills, Ability to work independently and as part of a team, presentation skills, self-learning.

Work Experience

- **Teaching Assistant** | Computer Science Department, Yarmouk University | Jordan-Irbid | 9/2018 - 12/2018 & 2/2019 - 5/2019
  - Evaluated student performance through grading and feedback.
  - Supervised exam halls to ensure smooth operations and academic integrity.
  - Collaborated with multiple instructors to support student learning.
- **Data Entry Internship** | Financial Department, Al-Sero Municipality | Jordan-Irbid | 9/2015 - 12/2015
  - Performed data entry tasks, inputting financial information into databases and spreadsheets.
  - Managed inquiries related to financial dues.
  - Gained practical knowledge of financial terms and procedures.

Education

- **Master of Computer Science** | Yarmouk University | Jordan-Irbid | 2022 | GPA: 83.9
- **Bachelor of Computer Science** | Yarmouk University | Jordan-Irbid | 2014 | GPA: 70.8

Publications

- Al-Taani, A. T., & Al-Dagamseh, I. T. (2023). Automatic detection of pneumonia using concatenated convolutional neural network. Jordanian Journal of Computers and Information

Technology (JJCIT), 9(2), 118-136.

- Al-Khatib, R. M., Al-Khateeb, A., Al-Daom, E., Al-Dagamseh, I. T., Tawalbeh, A., & Abualigah, L. (2023). A new enhanced IGBT-based model for CPU scheduling. Proceedings of the 2023 International Conference on Software Engineering and Machine Learning.

Courses, Trainings, and Certifications

- English Conversational Skills Part 1 & 2 | Edraak and British Council | 1/1/2025- 6/7/2025

  Developed my conversational skills in professional teaching ways.

- **Practicing Academic work in Universities and University Collages** (Training Course): gained a lot of vocabularies in Academic works like: learning and teaching, Using Modern teaching methods, Educational Technology and using and identifying some of open sources E-Learning platforms. (Yarmouk University, May 2025).
- **Generative AI for Kids, parents and Teachers:** We learned how to explain generative AI concepts to children using real-world activities and applications and enable them to use these tools in a conscious way. (Coursera, Jan 2025-Feb 2025)
- **Deep Learning & Computer Vision:** Developed and deployed computer vision projects, including a Jordanian currency detector (YOLOv8, Roboflow) and a historical places detector. Fine-tuned a Segment Anything Model (SAM) using a wheat dataset. (Tahaluf El-Emarat, November 2023 - March 2024)
- **AI for Everyone:** Gained a broad understanding of AI concepts and applications. (Coursera, April 2023)
- **Machine Learning Advanced**: Applied machine learning algorithms (SVM, Decision Tree, Random Forest, Clustering) and advanced concepts (hyperparameters, gradient descent). Implemented Python projects using Scikit-learn and Keras. Participated in Kaggle competitions. (Tahaluf El-Emarat, December 2022 - February 2023)
- **Time Management & Multitasking:** Learned time management techniques and tools (e.g., Google Calendar) to improve multitasking skills. (Tahaluf El-Emarat, December 2022)
- **English For Business:** Developed conversational skills specific to business contexts. (Tahaluf El-Emarat, December 2022)
- **Machine Learning Fundamentals:** Learned fundamental concepts of machine learning. Implemented Python projects using Scikit-learn, including Linear Regression, Multi-linear Regression, Polynomial Regression, Logistic Regression, Random Forest, and KNN. (Tahaluf El-Emarat, November 2022 - December 2022)
- **Data Science Advanced Training:** Performed data analysis, visualization, and data preparation skills. (Tahaluf El-Emarat, September 2022 - November 2022)
- **Data Science Fundamentals Training**: Learned fundamentals of data science: linear algebra, Python, statistics, and probability. Performed data analysis, visualization, and data preparation (feature selection, dimensionality reduction, normalization, outlier removal) using Python. (Tahaluf El-Emarat, July 2022 - September 2022)
- **Cloud Computing Simulation**: Simulated cloud computing environments in Java using CloudSim. (Rawaq, October 2021 - December 2021)
- **Artificial Intelligence and Machine Learning and its Applications**: Gained foundational knowledge of AI and implemented machine learning projects using Python. (Yarmouk University, 2019)
- **Networking (CCNA Routing and Switching):** Gained practical and theoretical networking skills, including network simulation with Packet Tracer and hands-on experience with routers. (Irbid Chamber of Commerce, 2017)

Competitions, Projects, Achievements and awards

- **Digital Skills Development and Employment Grant |Ministry of Digital Economy | (1/7/2025-Now).**

  Acquire skills that qualify us to enter the job market in fields related to data analysis and full-stack website development, in addition to qualifying skills for the job market.

- **AWS AI & DeepRacer Scholarship Program||AWS (2024-Now)**
  Trained a reinforcement learning (RL) model using AWS DeepRacer to simulate autonomous vehicle performance on a virtual track. Gained hands-on experience with applied AI, model training, and simulation. Participated in the AWS DeepRacer Student League to compete in lap-time optimization. achieved multiple scores in 2024 Student League at the Emirates level.
- **Nanodegree program from Udacity in AI Programming with Python| Udacity | (January, 2024).**
  - Developed foundational skills in artificial intelligence and programming using Python.
  - Gained hands-on experience in data structures, algorithms, and machine learning techniques.
  - Completed real-world projects that demonstrate proficiency in AI programming and problem-solving.
- **Historical Places Predictor**
  - Developed an AI model to predict six historical sites in Jordan using over 5,000 images.
  - Achieved 90% accuracy using pre-trained CNN models (ResNet50, EfficientNetB0, VGG16, InceptionV3).
  - Built a web app with Gradio and Hugging Face Spaces for image-based predictions.
- **Jordanian Currencies Object Detector System**
  - Collaborated in a team to develop an object detection system for Jordanian currencies using images and videos.
  - Collected and prepared 4,182 images on Roboflow, including annotation, splitting, resizing, and data augmentation.
  - Fine-tuned the YOLOv8 model and deployed the object detection system, achieving a precision of 0.86 with data augmentation.
- **Titanic Passenger Survival Predictor (Kaggle Competition)**
  - Built classification models to predict passenger survival using features like sex, age, and ticket class.
  - Performed data preprocessing, including handling missing values, encoding categorical data, and addressing class imbalance.
  - Achieved an accuracy of 0.77 using Random Forest and KNN models.
- **House Price Predictor (Kaggle Competition)**
  - Applied regression techniques to predict house prices based on 81 features.
  - Preprocessed data, including handling missing values, scaling, and feature engineering.
  - Achieved second place using Gradient Boosting Regressor.
- **Vehicle Insurance Classifier (Kaggle Competition)**
  - Predicted if policyholders would be interested in Vehicle Insurance using 11 features.
  - Preprocessed data, including outlier removal, oversampling for imbalance, and encoding categorical data.
  - Achieved 94% accuracy and 4th place using the Extra Tree model.

Language Competencies

- Arabic: Native Language
- English: Intermediate