

Hamad H. Alsheraifi

Research Assistant at Khalifa University (KU)

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Education

U.A.E. University (UAEU)

Al Ain, Abu Dhabi

B.Sc. Computer Engineering

May 2021

Major GPA: 3.68

Cumulative GPA: 3.51

Relevant

Skills

Data Science (AI-specific)

Machine Learning, Data Pre-processing, Feature Engineering, Time Series Analysis/Forecasting, Model Tuning, Regression, and Classification

Data Science TOOLS

Scikit-Learn, Pandas, Numpy, Matplotlib, XGBoost, Darts, Statsmodels, Seaborn, Keras, SDV, OpenCV, IDEs (Jupyter, Kaggle, Google Colab)

Programming

Python, C++, LaTeX, Linux Command Line, Arduino, Rust (basic)

Research

Experiences

Research Assistant — Al-Nokhba Program

September 2022 – **Present**

Center for Biotechnology (BTC), Khalifa University (KU)

Mentors: Dr. Vijay Wadi (BTC), Dr. Mariane Daou (BTC)

My research focuses on time series analysis of clinical SARS-CoV-2 data and wastewater data, obtained from lab-analyzed RNA samples.

GANs Research Project — Al-Nokhba Program

July 2022 – October 2022

Emirates ICT Innovation Center, KU

Mentor: Prof. Ernesto Damiani (C2PS)

Developed a GAN model using Random Forest classifier for a research project. Contributed to the paper, focusing on literature review, abstract, GANs overview, testing, conclusions, and optimization decisions.

On-Board Computer Simulation

January 2021 – April 2021

National Space Science & Technology Center, UAEU

Internship Project — Advisor: Dr. Mohammad Naouss (NSSTC)

Developed a desktop-GUI OBC simulation using Python and Arduino, replicating satellite telecommand/telemetry processes with UART communication protocol. Presented at NSSTC and participated in 'GNSSaS Weekly Project Meetings' to share progress and updates.

Scooter Incident Reporting System

January 2020 – December 2020

College of Information Technology, UAEU

	<p>Undergraduate Project — Advisor: Dr. Fekri Kharbash (UAEU)</p> <p>Contributed to the paper with technical tasks, literature review, and revisions before submission. Managed communication configuration algorithm and process between device and IoT platform. Designed the poster for the second and final presentation.</p>	
Teaching Experience	<p>Peer Tutor, Tutorial Center (UAEU)</p> <p>UGRU English Levels 1-4</p> <p>Assisted students in English language mainly in Speaking, Writing, and Grammar. Helped students prepare for English tests, both IELTS and UGRU.</p>	<p><i>Fall 2017</i></p>
Honors and Awards	<p>Al-Nokhba Program Member: Selected as 1 of 32 for the 17th Batch of UAE national service, in collaboration with NSRA, to conduct research and enhance research skills at KU.</p> <p>Invited Paper: Recognized for outstanding research on tabular-based GAN model for classification, resulting in an invitation to present at IEEE BigData 2022.</p> <p>Winner of Fall 2020 Best Senior Project Contest, UAEU: Secured first place among 39 senior projects, showcasing excellent teamwork and research.</p> <p>Dean's List: Maintained an undergraduate minimum GPA of 3.6 per semester.</p>	<p><i>June 2022 – Present</i></p> <p><i>August 2022</i></p> <p><i>2018-2020</i></p>
Publications	<p>Long-Term Study on Wastewater SARS-CoV-2 Surveillance Across United Arab Emirates</p> <p>Vijay S. Wadi, Mariane Daou, Noora Zayed, Maryam Aljaberi, Hamad H. Alsheraifi, Saeed S. Aldhaheri, Miral K. Abuoudah, Mohammed Alhammadi, Malika Aldhuhoori, Alvaro Lopes, Abdulrahman Alalawi, Ahmed Yousef, Shadi Hasan, Habiba Alsafar.</p> <p><i>Science of the Total Environment</i></p> <p>Using Generative Adversarial Networks to Simulate System Calls of Malicious Android Processes</p> <p>Hamad H. Alsheraifi, Hussain M. Sajwani, Saeed M. Aljaberi, Abdelrahman A. Alblooshi, Ali H. Alhashmi, Saoud A. Sharif, Ernesto Damiani.</p>	<p><i>Accepted</i></p> <p><i>Published</i></p> <p><i>IEEE BigData 2022</i></p>
Volunteering and Extracurricular	<p>Participated in the UAEU Science & Innovation Park (UAEU SIP) event “Coronavirus Awareness Contest” as a web-dev participant.</p> <p>Volunteered at UAEU’s Sports Complex in helping organize and manage chess tournaments at UAEU.</p> <p>Volunteered in the University Health Promotion Program: Students’ Needs Assessment at UAEU.</p>	<p><i>March 22, 2020</i></p> <p><i>Fall 2017 – Fall 2019</i></p> <p><i>February 2019</i></p>

Attended the IEEE 13th International Conference on Innovations in Information Technology. *November 2018*

Volunteered for several days at a veterinary clinic for a research project to raise awareness on the common ailments found in cats and dogs in the UAE. The [project](#) is compiled in a video format. *March – April 2018*

Participated in the 4th UAEU Annual Undergraduate Student Research Conference 2018 to share our research based on the prevalence on diabetes in the UAE. *April 2018*