Mohamad Mustafa Abdulkadir

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Education

United Arab Emirates University **January 2021 - May 2025**
Bachelor of Science in Computer Science
GPA: 3.97

Dean's List Award: Fall 2022, Spring 2023, Spring 2024, and Fall 2024

Experience

ADIA Lab **June 2025 - September 2025**
ML Research Intern Abu Dhabi - UAE

- Developed a transformer-based encoder to predict in-hospital mortality from 48x76 multivariate EHR time-series data, achieving high AUROC and Recall.
- Implemented attention and gradient-based methods to track feature importance.
- Built a ground-truth report generation pipeline that converts raw EHR sequences into structured text summaries and curates them using an LLM.
- Working on fine-tuning an LLM for clinical report generation and exploring alignment approaches to ensure factual grounding and accuracy.

e& **January 2025 - April 2025**
AI Intern Dubai - UAE

- Worked on integrating an AI-powered content recommendation tool with the Starz On Business platform
- Developed a bespoke chatbot for Starz On Business to automate tier-1 customer support cases using the platform's guides and FAQs

United Arab Emirates University **June 2024 - Jan 2025**
Research Assistant

- Researched the use of artificial intelligence in task classification and allocation in mobile crowdsensing platforms
- Developed techniques to generate synthetic training data for task classifiers
- Introduced a task classification approach based on a combination of machine learning models and filtering algorithms

United Arab Emirates University **May 2023 - Jan 2024**
Research Assistant

- Worked on developing an educational chatbot for students with special needs
- Deployed the system using Google DialogFlow

Publications

DoS-based Fake Task Injection for Disrupted Sensing
AICCSA, 2025

Mohamad Abdulkadir, Hanane Lamaazi and Ruhul Amin Khalil

Vault-PMS: A Vault-Based Password Management System for Secure Offline Data Storage
IWCMC, 2024

M. Abdulkadir, S. Alketbi, H. Lamaazi, R. Altamimi, S. Alblooshi and A. Lakas

Selected Projects

Advanced Technology Research Council - STEM Youth Mentorship Program

- Researched non-stationary contextual-bandit algorithms and large language models for recommender systems
- Worked on introducing change-point detectors to contextual bandit algorithms to enhance performance in stochastic environments and fine-tuning large language models for recommendation tasks

Implementing Sliding-Window LinUCB and Discounted LinUCB algorithms

- Implemented the algorithms proposed in “On Upper-Confidence Bound Policies for Non-Stationary Bandit Problems” using Python and reproduced the results

Fine-Tuning Large Language Models

- Fine-Tuned Llama 2 7b LLM on an unstructured dataset
- Utilized Amazon Sagemaker and other AWS tools to fine-tune and deploy the model

NutriVision

- Worked on developing a Mixed Reality application designed to automate diet tracking by visually identifying food items and calculating calories and nutritional content.
- Developed the core computer vision component by training YOLOv11 models and studying the trade-off between detection accuracy and inference speed for a smooth real-time experience.
- The project secured 3rd place in the UAEU Innovation Challenge.

Open-Source Contributions

Deep-ML: Leetcode-style problems for machine learning and linear algebra

Certifications

Samsung Innovation Campus Artificial Intelligence Course **November 2024**
Samsung

AI Programming with Python Nanodegree **October 2024**
Udacity

Introducing Generative AI with AWS **July 2024**
Udacity