Mohamad Mustafa Abdulkadir

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EDUCATION

United Arab Emirates University — Al Ain, UAE

Bachelor of Science in Computer Science; GPA: 3.99 — **January 2021 – April 2025**

Udacity

AI Programming with Python Nanodegree Program — **June 2024 – October 2024**

SKILLS SUMMARY

- **Languages**: Java, Python, JavaScript, SQL
- **Frameworks**: NumPy, Pandas, PyTorch, Matplotlib, Scikit-Learn
- **Tools**: MySQL, SQLite, Firebase

WORK EXPERIENCE

Student Researcher | UAEU SURE+ Program — **June 2024 – December 2024**

- Researching the use of artificial intelligence in task classification and allocation in mobile crowdsensing platforms
- Developed techniques to generate synthetic training data for task classifiers
- Co-Authoring a research paper

Student Researcher | STEM Youth Mentorship Program — **November 2023 – July 2024**

- Researching non-stationary contextual-bandit algorithm
- Working on introducing change-point detectors to contextual-bandit algorithms to enhance in performance in stochastic environments (recommendation systems)
- Co-Authoring a research paper

Student Researcher | UAEU SURE+ Program — **May 2023 – March 2024**

- Worked on developing an adaptive educational chatbot powered by artificial intelligence.
- Actively Participated in all project phases.

PROJECTS

Implementing Sliding-Window LinUCB and Discounted LinUCB algorithms

- Implementing the algorithms proposed in “On Upper-Confidence Bound Policies for Non-Stationary Bandit Problems” using Python
- Performed contextual-bandit simulation to reproduce the results

Fine-Tuning Large Language Models

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

Crime Prediction Using Classification and Regression Techniques

- Developed a machine learning-based solution for crime prediction using an integrated approach involving multi-classification and regression techniques
- Handled unorganized data and performed advanced data processing and feature engineering techniques
- Achieved an F1 score of 0.84 in classification and an MSE of 2.97 in regression

PUBLICATIONS

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

CERTIFICATES

- Introducing Generative AI with AWS | Udacity
- Machine Learning with Python | FreeCodeCamp