Abdu Sallouh

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Skills & Interests

Technical: Python, Scikit, PyTorch, Keras, Java, R, C++, C#, Kotlin, JavaScript, SQL, MATLAB
Soft: Critical-thinker, Collaborative, Leadership-oriented
Languages: English (C1), German (B1), Arabic (Mother Tongue)

Education

Technical University of Dresden, Dresden, Germany   October 2024-Present
Master of Science in Computational Modelling and Simulation, *Track in Visual Computing*

American University of Sharjah, Sharjah, UAE   August 2020-June 2024
Bachelor of Science in Computer Science   GPA: 3.61/4.00 (1.5)
Minor in Data Science

Coursework: Data Mining, Neural Networks, Computer Vision, Machine Learning
Honors: Chancellor's List (GPA above 3.50), Tau Beta Pi (Top 20%), IEEE HKN (GPA above 3.30)

Westminster School Sharjah (High School), Sharjah, UAE   September 2019 – June 2020
A-Levels (UK System)
Grades: ICT (A), Physics (B), Math (C)

Work Experience

DaTNet (DatenTreuhand Kompetenznetzwerk), Dresden, Germany   March 2025-Present
Resarch Assistant
- Supporting the project with web development and reseraching relevant scientific articles.

Schneider Electric, Dubai, UAE   June 2023-July 2023
Digital Energy Intern
- Developed a timesaving ChatGPT-powered chatbot for automated customer support.
- Utilized full-stack web development with Node.js and HTML/CSS.
- Won an internal security competition with the integration of a chatbot solution.

Projects

Final Year Project, Cicero: AI Public Speaking Coach   September 2023-Present
- Collaborated with a team of four to provide public speech feedback on a 2-3-minute video with a chatbot coach.
- Automatically extracted Audio Metrics such as Pitch, Volume and Pauses, Facial Emotions, and Speech Transcript as the basis for analysis.
- Implemented technologies such as GPT 4.0, OpenCV, and Librosa for analysis.

Neural Networks, Course Project & Ongoing Research   September 2023-Present
- Successfully collaborated with a team to generate new images of UAE wildlife using Stable Diffusion; Achieved a grade of 100%.
- Utilized YOLOv6 to analyze 9 cases of object detection with additional generated imagery.
- Working on publishing by late 2024.

Computer Vision, Course Project   February 2024-June 2024
- Successfully collaborated with a team to utilize six models to predict the four categories' bounding boxes of recyclable items based on the ZeroWaste dataset.
- Utilized Detectron2 TridentNet, RetinaNet, and Mask R-CNN with highest AP50 score of 47 for TridentNet.
- Worked with State-of-the-art (SOTA) models of YOLOv6, YOLOv8, and RT-DETR with AP50 score of 37.

Machine Learning, Course Project   February 2024-June 2024
- Utilized SVM, KNN, Naïve Bayes, and Decision tree to predict four types of IoT Intrusion attacks.
- Utilized feature selection methods such as K-Best, and Univariate Analysis to extract best features; received average F1 Scores of over 97% for all models.

Activities & Extracurriculars

IEEE CS (Technical Club), Vice President   November 2022-Present
- Planned and executed 5+ Club events.
- Reorganized club resources and hired 10+ new members.

Open-Source Club, Activities Team   November 2022-May 2023
- Aided in organizing Hackathons and Capture the Flag events.
- Coordinated with other clubs for collaborations on departmental events.
- Helped raise awareness about Open-Source Software.

AIESEC (Volunteering), Talent Management   November 2022-April 2023,
                     Outward Exchange   October 2024-Present
- Coordinated and ushered 100+ guests to a finance expo.
- Interviewed and followed up with 5+ aspiring members.