

Salsabeel H. H. Tantoush

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Education

Eastern Mediterranean University B.S. in Software Engineering Sep 2019 - Jun 2023
High Distinction | Dean's list for 7 out of 8 semesters | Top 5 % of class | CGPA: 3.9/4.0
Leadership: Microsoft Learn Student Ambassador, Talent manager at AIESEC

Udacity AWS Machine Learning Engineer Nanodegree Oct 2021 - Jan 2022

Professional Experience

Machine Learning Engineer Jul 2023 - Present
Cyprus Robotics Famagusta, Cyprus

- Developed a machine learning model using Fully Convolutional Neural Networks (**FCNN**) with TensorFlow (**Keras**) to detect and classify images of floors with broken tiles.
- Built the dataset from scratch by synthesizing images using **DALL-E**. Applied data augmentation techniques using **Augmentor** to increase the diversity and size of the dataset, improving the model's robustness and performance.
- Used matplotlib to process greyscale images by plotting pixel histograms. This indicates your expertise in image processing and data visualization, helping in the analysis and understanding of the data.

Data Science Intern Jul 2022 - Oct 2022
Breeze Technologies Remote, Germany

- Developed a machine learning model, a synthetic data generator, that produced data mimicking air quality for clients, based on **regression models** that modeled the general trend of the real data.
- Built an automated reporting tool for end-clients using Python and **Power BI**, producing a PDF report of graphs showing air quality data collected; contributed to the working prototype of the tool for the client.
- Upgraded an internal data science library using Python, adding new data wrangling functions in the library modules for additional data processing.
- In collaboration with the team, resolved complex version control problems including "merge conflicts" while merging development code branches to the main production branch, with the use of **Bitbucket**.

Software Engineering Intern Nov 2020 - Feb 2021
EMU Aquabotics Research and Development Center Famagusta, Cyprus

- Created action simulations for Autonomous Underwater Vehicles (AUVs) using QGroundControl in a cyber environment to test the navigation code of the vehicles in different situations.
- Automated tasks using Python such as generating performance reports and documentation; saved the team 2 weeks of work by building a template that was auto-filled with the Python script.
- Wrote code documentation and reports for the AUVs, which was crucial for participating in TEKNOFEST2021, a national robotics contest in Turkey.

Technical Skills

- **Programming and query languages:** Python, Java, SQL (PostgreSQL, SQLite).
- **Frameworks and tools:** AWS, Docker, Flask, HTML, CSS.
- **Libraries:** Pandas, NumPy, scikit, PyTorch, TensorFlow, Matplotlib, Keras.
- **Data/Machine Learning:** Microsoft Azure, Google Colab, Jupyter Notebooks, Anaconda.

Awards, Competitions, and Extra-curriculars

- **AWS Machine Learning Engineer Nanodegree Scholarship:** Awarded fully funded scholarship after scoring in the top 1% out of 50,000 students worldwide in the machine learning fundamentals exam.
- **Bertlesmann Technology Scholarship (TensorFlow Specialization):** Awarded fully funded scholarship after being ranked as a top performer in the Bertlemann Machine Learning challenge exam.

Languages

- **Arabic** (Native) | **English** (Fluent) | **Portuguese** (Fluent) | **German** (Basic)