Salsabeel Tantoush

+358449242289

salsabeeltnt02@gmail.com

salsabeel-tn.github.io

LinkedIn

Finland, 53850

A Software Engineer, with a focus on data modeling and predictive analytics.

E X P E R I E N C E

Software Engineer (Compulsory internship - LUT x AskKauko)   **02/2024 - Present**
ImpactOS by AskKauko   Helsinki, Finland

- Led the development of a crowd-sourced **database** for **carbon emission factors**, facilitating cost savings of over €100,000 annually for small and mid-sized businesses by enabling precise carbon footprint calculations.
- Designed an **automated ETL data pipeline**, reducing data processing time and enhancing data accuracy.
- Implemented a **CI/CD pipeline** using Azure Pipelines in Azure DevOps, leading to 40% increase in project delivery.

Machine Learning Engineer (Freelance project)   **07/2023 - 09/2023**
Cyprus Robotics Ltd.   Famagusta, Cyprus

- Developed a machine learning model using Fully Convolutional Neural Networks (FCNN) with TensorFlow (Keras), reducing floor maintenance costs through early detection and classification of broken tiles, saving approximately €50,000 annually.
- Created a comprehensive dataset from scratch, leveraging DALL-E for image synthesis and Augmentor for data augmentation, resulting in a 25% increase in model accuracy.

Data Science Intern   **07/2022 - 10/2022**
Breeze Technologies (Internship)   Hamburg, Germany

- Developed **an automated reporting tool** using **Python** and **Power BI,** producing a PDF report of graphs showing **air quality data**, generating actionable insights for end-clients and contributing to a 20% increase in customer retention for the company.
- Improved an internal data science library with advanced Python functionalities, optimizing data processing and leading to shorter task completion time among the development team.

Software Engineer Intern   **11/2020 - 03/2021**
EMU AQUABOTICS   Famagusta, Cyprus

- 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.
- Created environment simulations on Linux for **an Autonomous Underwater Vehicle** (AUV) using QGroundControl Library to test the navigation code of the underwater robot in different situations.

E D U C A T I O N

09/2023 - 08/2025   **Sustainable Software Engineering and Green IT (SE4GD)**
                                           Lappeenranta University of Technology (LUT)
                                           Master of Science (M.S)
                                           EMJM Fully Funded Scholarship (**35,000€**)

09/2019 - 07/2023	**Software Engineering**
	Eastern Mediterranean University
	Bachelor of Science (B.S)

High Distinction | Top 5 % of class | CGPA: 3.9/4.0

Thesis project: Salvo – An interactive AI financial assistant

SKILLS

Python	Expert	Cloud (AWS, Azure)	Advanced
Pandas, NumPy, scikit, PyTorch, TensorFlow, Matplotlib, Keras	Intermediate	SQL	Advanced
Power BI, Tableau	Advanced	Docker	Intermediate
		Java	Intermediate

PROJECTS

IoT wildfire detection dashboard (analytics and reporting) – a group project [**Code link**]
- A complete IoT system that collects data from virtual sensors, preprocesses and analyzes the data, then displays it on a Grafana dashboard to monitor and report data about Air Quality anomalies to detect wildfires.

Data analysis of the Android App Market on Google Play [**Code link**]
- Performed a comprehensive analysis of the Android app market by comparing over ten thousand apps in Google Play across different categories, extracted data insights to drive app growth.

AI-based approach to predicting customer preferences on the Starbucks Offers App [Code Link]
- An RNN model that helps in predicting customer behavior on the Starbucks Offers App and triggers a workflow to send users Starbucks offers customized to their preferences.

AWARDS

- **Erasmus Mundus Scholarship**: Fully funded master's degree scholarship **(35,000 €)** – The Top Candidate ranked among 500 applicants.

- **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.

LANGUAGES

English	Fluent	Arabic	Native
Portuguese	Intermediate		