# Saif Zaidan

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## Education

**Princess Sumaya University for Technology (PSUT)**

• BSc Artificial Intelligence & Data Science, Very Good.                              Graduation: Sep/2023

• Graduation Project:

  - Perception Grasp: An Intelligent Object Classification and Robotic Grasping for Litter Sorting.

  - Grade: 92%

  - Description:

     I have utilized the pepper humanoid robot for grasping and classification task of paper cups, soda cans into litter bin Using Reinforcement learning and computer vision from a simulated computer environment into the real life Robot.

• Honors and Achievements:

  - Certificate of Appreciation from the Gifted Students Office at PSUT (2020-2021).

  - Member of the Data Science club at PSUT, helped in organizing Events, workshops and Competitions.

  - Speaker and member of the Google Certifications Event at PSUT.

## Experience

**Sitech**                                                                                                                          Amman, Rabbieh

  **Data Science intern.**                                                                                    July 2021 - Oct 2021

- Honed my Data Science, data cleaning and feature engineering skills in working on multiple projects and with a great team effort.
- Developed a Topic modeling system , Movie Rating Prediction model and house price prediction problems.

**AL-Ghanem Group.**                                                                                                Amman, Abdoun

  **Data Engineer intern.**                                                                                 May 2022 - Sep2022

- Implemented fuzzy matching for a huge dataset of duplicated company names, which was a great issue for the company practicality, then followed with SQL stored procedures to merge, handle and delete records of data, for analysis goals.

**Samsung Research & Development.**                                                                    Amman, KHGP

  **Machine Learning Engineer.**                                                                    Aug 2023 – May 2025

- contributed and developed ASR, TTS and ITN systems for Arabic language.
- developed web Application for Data Management and tracking using Django.
- Rule Based ARABIC Inverse Text Information using java.
- ARABIC Text-to-Speech system using C++, With different models for Arabic Tashkeel.
- ARABIC Automatic Speech Recognition models using tensorflow/pytorch (Cascaded Conformer).
- Researched the space of Arabic NLP, LLMS and transformers and their on device applications and challenges regarding Memory and latency.
- Quantization (bits&bytes), LoRa Techniques, ,Analysis (Tensorboard), hugging face, vector DB's and Rags.
- Researched and implemented Multi-Modal Models for different tasks including Summarization.
- Trained and Tested Deep learning models for a variety of tasks.

## Courses & Certifications

- Certified Google Tensorflow developer.
- Deep learning Specialization by Andrew ng. (Coursera)
- AWS machine learning specialty Course by Frank kane. (Udemy)

## Competitions

- ML4SCI: Ranked 2nd place Globally in the nuclear magnetic resonance challenge, multi variate regression problem.
- SDIAI smart cities challenge: finalist out of 200+ for the pothole severity challenge a computer vision problem.
- WIDS: top 5% Globally out of 800+ competitors, Solving an energy consumption estimation problem.
- Participation in IEEEXtreme 16.0, A 24-hour problem solving competition.