Data Analyst / Data Scientist

Python / SQL

**Itamar Shilo**

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**Summary**

* **1 year** **of experience** as a **Data Scientist** - **Algorithms researcher** of **Deep Learning** with a focus on **Neural Networks**, improving algorithms and learning methods.
* **1 year** **of experience** as a **Software Developer** with extensive use of **SQL** in **a high-tech** company **- Sapiens**
* Deep knowledge of **Python** and **Matlab**
* Experience with libraries - Pandas, **Numpy**, scipy, **Scikit-learn**, **TensorFlow,** and **Keras**
* Hands-on experience in **image processing** using **MNIST** database
* Proficient in **data analysis**, **machine learning**, and **statistics**
* Proficiency in using data analysis tools such as **Excel** and **Tableau**
* Team player with a proactive, creative attitude, **strong analytical capabilities**, and passion to leverage **complex data sets** to opportunities and business value
* **M.Sc. Financial Mathematics and Technology**, Bar Ilan University, **grade 90**
* **English** - Fluent

**Experience**

2022 - 2023 **SQL Developer / Software Developer**, **Sapiens**

* **E-merge developer**, contributing to on-demand development on the Topaz system, a platform provided to insurance companies.
* Assisted in **fixing faults** and **bugs** in the systems.
* Extensive use of **SQL.**
* Received a ticket with a task in the **STMT system** (reporting system) and there was written the fault or the development requirement.
* **Tracked** and **analyzed processes** to identify error sources.
* Documented and reported malfunctions, causes, and solutions.
* **Identified** and **resolved data** retrieval malfunction by **implementing appropriate validation** **measures**
* **Developed a customized process** for joining new customers, specifically for a particular company, new joiners, and independent workers, where only the previous year needs to be entered in the joining date field
* **Implemented metadata enhancement** for system **tables**, identifying relevant tables and populating them with appropriate values

2020 - 2021 **Data Scientist**, Bar Ilan University

* Worked as a **Neural Network researcher**
* Worked on **optimizing neural networks** by changing their architecture, training process, and the **dataset** itself, using **MATLAB**
* Added an **acceleration component** to the **learning process** of the neurons, defining the values in the **database as vectors** with spikes (as an imitation of brain activity) and checking the results.
* Mainly used **MNIST** as a database.
* **Implemented the networks** myself in **Matlab**.

**Education**

**M.Sc. Financial Mathematics and Technology**, Bar Ilan University - grade 90

* Completed advanced coursework in financial modeling, **machine learning**, and **statistical analysis.**

**B.Sc. Biophysics**, Bar Ilan University - grade 87

* Completed coursework in neural networks and modeling of biological and physical processes.

**Skills**

Programming languages: **Python** (pandas, numpy, scipy, scikit-learn), **SQL,** **Matlab**

Data analysis tools: **Excel** and Google Sheets, **Tableau**

Deep learning: **TensorFlow, Keras, Matlab**

**SQL**: Microsoft SQL Server, WinSQL, **MySQL**

Database design: **ERD**

Web scraping and automation: **Selenium**

Big Data: **Spark, Pyspark**

**Military Service**

Infantry, IDF

**Languages**

**Hebrew** - Native speaker |  **English** - High level