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LinkedIn

Linoy Bushari

Software Developer

Projects

- Designed a Python-based PySpark application for large-scale graph analysis, efficiently handling large datasets to identify common neighbors in graphs (ongoing) - link.
- Collaborated in a hackathon project focused on predicting the number of interacting chains in protein structures using language models (**NLP**).
- Implemented MapRecude library, and Multi-threaded programming library implemented in C++.
- Developed machine learning libraries from scratch with Python, learning the fundamentals of machine learning algorithms.

Skills

- Programming Languages: Java, Python, C, C++, R.
- Data Stack: Spark, Jupyter Notebook, data analysis, visualization, and statistical modelling.
- Database Technologies: SQL, PostgreSQL.
- Tools and Platforms: Git, Docker.

National Service

Medical Secretary | Davidoff Center for Cancer, Rabin Medical Center
2014 - 2016

Languages

- Hebrew: Native.
- English: Fluent.

About Me

B.Sc. in the Computer Science and Computational Biology excellence program at The Hebrew University. I possess strong analytical abilities and a profound passion for solving complex problems, and proficiency in Python. A dedicated self-learner, quick to adapt, and a committed team player capable of working independently.

Professional Experience

Research Assistant, Metagenomics Laboratory | The Hebrew University of Jerusalem
2022 – 2023

- Developed and optimized a data pipeline with **Python** for comprehensive preprocessing, analysis and visualization, applying advanced statistical algorithms to identify patterns and insights.
- Implemented complex SQL queries for efficient data retrieval.
- Authored and maintained shell scripts to manage Linux clusters, optimizing distributed computing and high-throughput, multiprocessing tasks.
- Effectively communicated complex research findings at lab meetings, enhancing decision-making.
- Conducted literature searches to adopt new tools and broaden the knowledge base.
- Stack: Python (NumPy, Pandas, Matplotlib, Plotly, Seaborn, for **CSV** files), SQL, and Shell Scripting.

Education

B.Sc. in Computer Science & Computational Biology | The Hebrew University of Jerusalem
2020 - 2023

- GPA: 86.
- Machine Learning (supervised and unsupervised learning, scikit-learn), Data Processing in Structural Biology (93, including deep learning methods, TensorFlow, PyTorch), Algorithms (90), Algorithms in Computational Biology (93), Data Structures, Databases (92), Cryptography and Software Security (95), and Operating Systems.