Liana Akobian

Data Science Student

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EDUCATION

MSc - Data Science
Technical University Vienna
03/2021 - Present

Erasmus+ Program (Artificial Intelligence Track)
KU Leuven
02/2023 - 07/2023

BSc - Computer Science
University of Vienna
10/2016 - 01/2021

WORK EXPERIENCE

Big Data Engineer
Technical University Vienna
01/2021 - 01/2023

Achievements/Tasks

- managing and tuning a Big Data cluster
- holding courses and workshops on Big Data

HR Technology Working Student
SAP
11/2018 - 08/2020

Achievements/Tasks

- managing innovative IT-projects such as Chatbots for HR based on Machine Learning and Knowledgebase Systems

SKILLS

Python | Java | R | Docker | Latex | MS Office | Wandb | Ansible | Linux | MacOS | Windows | SQL | Neo4J | Postgres | Openstack | C++ | JavaScript | Matlab

PROJECTS

Evaluation of the multilingual Semantic Text Similarity (10/2020 - 01/2021)

- Bachelor Thesis, Grade: 1.0
- Research, application and evaluation of various ML models to measure the semantic text similarity of two different documents

Predicting Response Variability following an Oxygen Stimulus in C. elegans (09/2022 - 04/2023)

- Interdisciplinary Project, Grade: 1.0
- Analysis of neuronal activity data, leveraging methods from ML and Functional Data Analysis

Dynamical Systems Modeling of Manifolds (Ongoing) (10/2023 - 11/2024)

- Master Thesis.
- I built a 'canonical' manifold, representative of multiple neural activity recordings, with various dimensionality reduction techniques.
- To analyze the dynamics of the canonical neural manifold, I extended a switching dynamical systems model by incorporating control signals, allowing for the extraction of an interpretable component that can be related to observable phenomena.

LANGUAGES

German
Native or Bilingual Proficiency

Armenian
Native or Bilingual Proficiency

English
Full Professional Proficiency

INTERESTS

Art | Mountaineering | Climbing | Chess