Sapir Mardan

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SUMMARY

Current MSc student in Bioinformatics with a strong background in Python. I have experience in data analysis, visualization, R, Linux, machine learning, and bioinformatics tools. I am eager to collaborate on innovative projects, where I can continue to develop my expertise and contribute to innovative research.

LinkedIn: https://www.linkedin.com/in/sapirmardan/

Portfolio: https://sapir-mardan.github.io/portfolio/

EDUCATION

MSc in Bioinformatics, 2023 – 2024 (Expected Graduation: 05/09/24).
University of Bristol - Bristol, UK
Expected Degree Classification: First Class-Honours

Selected Relevant Courses: Scientific Programing, Programming with R, Advanced Programming, 3D Protein Structure.

Research Projects:

- Collaborated with a team of students to explore bacterial genome and developed an easy-to-use program for future use by scientists.
- Conducted research in Machine Learning, focusing on developing classifying models with data analysis and visualization.
- Performed academic research analyzing genomic data.

Dissertation: Our novel system, CamoGAN, models camouflage evolution using Generative Adversarial Networks, to simulate biologically relevant systems to uncover unknown evolutionary pressures and effects.

BSc in Biology, 2017 - 2021
Tel-Aviv University - Tel-Aviv, Israel

ADDITIONAL TRAINING

- Completed ‘Basic Python & Data Analysis’, She Codes (2021).
- Completed ‘Python Data Analysis & Visualization’, Educative (2022).
- Gained certification at ‘Python Bootcamp: From Zero to Hero’, Udemy (2024).
- Completed ‘Python Data Analysis and Visualization’, ‘Introduction to Deep Learning with PyTorch’, ‘Intermediate Deep Learning with PyTorch’, DataCamp (2023-2024).

  Through these courses, I enhanced my knowledge beyond university coursework. This helped me to achieve distinction in 'Advanced Programming', where I developed machine learning models and visualizations to classify puffin species and an efficient parallel algorithm that finds longest contiguous sub-sequence in a genome.

SKILLS

- Python
- Pandas
- PyTorch
- Git
- Unix/Linux
- PyMol
- Statistics

EXPERIENCE

English Teacher, 05/2022 - Current
FLOW

Technical Assistant, 09/2021 – 08/2022
Computing Department, Tel-Aviv University

- Devised and supervised a system to support hybrid studies in response to the COVID-19 pandemic. Collaborated with professors to develop a virtual resource that broadcasted lectures online and created a platform for students to access the entire syllabus remotely.

Office Manager, 01/2016 - 01/2019
Rosentours Ltd - Tel-Aviv, IL

EXTRACURRICULAR ACTIVITIES

- Secretary of University of Bristol Biology Society, (2023- 2024): Successfully enhanced members engagement by organizing events fit to mature and international students, such as a volunteering program at the botanic garden.
- Volunteered as sixth-graders biology teacher, Discovering the Sea Program, Tel-Aviv University, (2020).
- Assisted children with special needs, Beit Hayedidut, Tel-Aviv, (2014-2016).

REFERENCES

Available upon request.

LANGUAGES

- Hebrew - Native
- English - Fluent