Elior Ben-Yosef

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Machine Learning, Deep Learning, Algorithms. Well-versed in implementing various algorithms.
Proven success in building and training ML & DL models in Python.
Autodidact, independent, team player. Up for any challenge.

Achievements

Dec 2019 — **Winner (1st place) of the RAFAEL Machine Learning Challenge 2019 competition**
RAFAEL Advanced Defense Systems Ltd. built a game environment in which a defending turret must intercept enemy rockets fired at two cities. The challenge was to write the best ML-based python software that plays the game independently, and gets the highest score. The decision-making algorithm I wrote utilized predictions made by 7 classification & regression neural networks to choose and intercept the highest-profile rocket at any given moment.

Experience

2020 - 2021 — **Deep Learning project**
Studying a variety of Deep Learning methods, including:
Evolutionary algorithms (GitHub repo).
Non-Reward-Signal RL approaches - Imitation Learning, Inverse RL, etc.
Alternate deep RL strategies - Intrinsic Motivation, Reverse Curriculum Generation, World Model Learning.

2019 — **Reinforcement Learning project**
Implementing a variety of Reinforcement Learning algorithms in multiple game environments, including the use of Convolutional Neural Networks for visual input (Computer Vision) - see my **GitHub repo**.

2017 - 2019 — **Lead Android App Developer, Hippotec Ltd.**
Building production-quality apps. Emphasis on reusable code, and high performance.
Team Leader - managing a team of developers in sprints using JIRA (Agile dev.) and Git VCS.
Project Manager - close work with clients, Fabric version release, problem-solving.
IoT product - WiFi connectivity, APIs utilization, data visualization.

2017 — **Android App Developer, Independent project: Happy Hour TLV**
APIs: Google Maps, Google Places, Firebase Realtime Database.

Education & Programs

2021 — **Data Science & Machine Learning course**
Implementing various Machine Learning models - Supervised, Unsupervised (clustering), Reinforcement (multi-armed bandit), Dimensionality Reduction - see my **GitHub repo**.

2013 - 2016 — **B.Sc in Biology, Tel Aviv University**
Completed with highest honors (final grade: 95), under the 'Honors Research' program for outstanding students.
Extended research projects (10 credit points each, final grades: 100, 98) under:
Prof. Eliora Ron (Microbiology), and Prof. Itai Benhar (Immunology).

2015 — **Young Weizmann Scholars, Weizmann Institute of Science**
A program for outstanding undergraduate students in the field of life sciences.
Joined Prof. Jacob Hanna research group (Pluripotent Stem-Cells).

2007 - 2011 **Traditional Chinese Medicine studies (Dip.C.M.), "Campus Broshim" college**
Graduated top of my class. Internship at "Assaf Harofeh" medical center.

2001 - 2004 **Israel Arts and Science Academy (IASA), Jerusalem**
Part of the Israel Center for Excellence through Education.
Extended subjects (5 credit points each): computer science, math, chemistry, english.
Mathematics matriculation exams were completed at 11th grade (honors class).

Programming Languages: Python, Java.
IDEs: PyCharm, Android Studio.
Python Deep-Learning frameworks: Keras, TensorFlow, PyTorch.
Data-Science libraries: pandas, sklearn, scipy, numpy, matplotlib.

Military Service: Israeli Intelligence Corps (8200).