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IDAN SHENFELD

PROFILE

EECS PhD at MIT, working on reinforcement learning algorithms and their applications. 3+ years of industrial experience in various global companies. Knowledge and experience in data analysis and machine learning models.

EDUCATION

PH.D. IN ELECTRICAL ENGINEERING AND COMPUTER SCIENCE, MIT

- September 2022 – present. (GPA 5.00/5.00)
- advised by **Professor Pulkit Agrawal**.
- Making it easier and faster to train RL agents, especially in challenging cases such as history-dependent policies and partial observability.
- Building deep RL algorithms for under-specified reward functions such as human preferences or language task descriptions.

B.S. IN COMPUTER ENGINEERING, TECHNION

- Class of 2021, Summa Cum Laude (GPA 94.8/100).
- Expedited course of study (3 years instead of 4); Rothschild scholarship; Apple Award for Excellence BSc Students; Dean's or Rector's List, all semesters.
- Conducted research in Reinforcement Learning under the supervision of **Professor Aviv Tamar**, and in Geometrical Learning under the supervision of **Professor Ron Kimmel**.

PROFESSIONAL EXPERIENCE

APPLIED RESEARCHER, GENERAL MOTORS AV PROJECT
August 2021- September 2022

- Performing research as part of the Perception group in GM autonomous vehicle project.
- Focus on problems such as General Obstacle Detection, Road Segmentation, Sensor Fusion and more.

MACHINE LEARNING ALGORITHM ENGINEER, SAMSUNG FLASH SOLUTIONS RESEARCH LAB (AFSL)
October 2017- October 2018

- Research of machine learning based algorithms for storage systems. Development and incorporation of machine learning techniques into storage controllers.
- Lead the research of innovative error correction modules for storage systems that integrate classic ECC techniques and DL algorithms.

DATA AND INTELLIGENCE ANALYST DEPARTMENT LEADER, UNIT 8200, ISRAELI DEFENCE FORCE
July 2015- October 2017

- Military service at Unit 8200, the Israeli equivalent of the NSA. Finished the service as an officer at the rank of First Lieutenant.
- Managed 4 multidisciplinary teams, with a total of approximately 40 employees.
- Project management including resources control, tasks and deadlines synchronization.
- Award of excellence given to me on the exemplary department functioning.

DATA ANALYST \ SCIENTIST, UNIT 8200, ISRAELI DEFENCE FORCE
May 2013-January 2015

- Intelligence reports and data analyses, many times under time-sensitive conditions.
- Research and Development of classification model for valuable network segments. The project won the “Chief of Intelligence prize for Outstanding Projects”.

SKILLS & ABILITIES

- Data science tools: SciPy, Scikit-learn, Pytorch, Keras
- Languages: Python, C, C++.
- Good knowledge and experience in statistics, machine learning algorithms and deep learning algorithms.