

Idan Fonea

Data scientist and engineer

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General

7 years of experience solving diverse problems using data and machine learning. Development in varying environments, strong programming skills and tech savvy. Solid mathematical background, experience in academic/industry research. MSc (ongoing) in EE, thesis in Uncertainty for Deep learning - molecular dynamics. Knowledge in software and data science tools and methodologies. Work with various stakeholders, ML product definition and delivery to production. Multidisciplinary background, army service in 8200 technical position. Patent: <https://uspto.report/patent/app/20200402116>
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Experience

Solidus-Tech – Data Scientist/Algo trading Algorithms developer (Python, C++)

2020-2021

- Research and development of High Frequency trading strategies that rely on of ML, market microstructures and other heuristics (time-series data)
- Delivery to production (C++) resulted 25% increase of profit in assigned market.
- Research using sentiment analysis, correlation matrices and other peripheral signals.
- EDA, back-tests analysis and POCs using python visualization and statistics tools.

WeWork- Technology – Data Scientist (Python)

2019 (short period)

- Part of the growth-tech department, utilizing data science and machine learning to support company hyper growth and sales missions.
- Marketing campaign attribution modeling.

RealI – Senior Data Scientist (Python, SQL)

2018-2019

- Data research the field of housing in the US.
- Built a Recommender System for homes, based on user history. Price prediction using Deep Neural Networks (regression network)
- Extraction of insights and question answering from date utilizing quantitative research combined with domain experts' inputs.
- Use of tools from the field of NLP, unsupervised ML and analytics.
- Delivery to production.
- Patent Application (real estate price prediction and bid winning probability)

IronSource (Digital Platform) – Senior Data Scientist - Machine Learning (Python, SQL, Javascript)

2016-2018

- Introduction and ownership of data science as part of the Data Warehouse Team - 50GB and 1.5M unique users per day.

- Delivering of Machine Learning models to production. From ideation through POC to a live pipeline for development,
- Testing, deployment, and maintenance. Resulted in a major increase in revenue.
- Work with various stakeholders – developers (including training in ML), product, sales, management, researchers, other data scientists.
- Used various development tools and frameworks: Sklearn, Redshift, Turi, Tensorflow, python, node.js, docker, git, AWS.
- Projects in classification, regression, testing methodologies, feature engineering and unsupervised neural net-based embedding.

Algomizer – Software Algorithm Developer (C#.Net)

2015

- Development of data and ML features to production: live Crawling, website classification, color detection (patent provision submitted).
- Implementation of the company's automatic bid optimization algorithm, on Linq, SQL Server on AWS.

Clew Medical - Machine Learning R&D Engineer (Internship - Python, Matlab)

2014

- Predictive analytics on Intensive Care Unit patients. Formerly Intensix Analytics.
- Research and Implementation of algorithms for analyzing ICU time-series data.
- Close work with Machine Learning and Healthcare specialists.

Linkcom Telecom - System Engineer (Electrical engineering, Matlab)

2012-2013

- Lead, design and integrate large-scale projects in the field of antennas ground stations mostly for satellite communication.
- Conducted link budget, site surveys, solution tailoring and worked with customers.

Military service - Intelligence Unit (8200) – Technical position

2003-2006

Technical responsibility for all Sigint, Communication & Infrastructure systems (including networks, RF, server farms and satellite communication)

Education

(Thesis stage) MSc- Electrical Engineering - Tel Aviv University

2017 - in progress

Research thesis in uncertainty of a Deep learning regression predictor for DFT simulator (Molecular dynamics) - off work hours, available for full time. Supervisor: Dr. Amir Nathan.

BSc- Electrical Engineering - Ben Gurion University

2007-2011

Electrical Engineering, specialized in Electromagnetism (RF), Circuits and Communication.
Research Project: Flexible & Transparent Organic Antenna.