Yoni Nazarathy

Senior data scientist and machine learning engineer

An experienced mathematical data science researcher, practitioner, and educator with plenty of hands on machine learning engineering expertise both in industry and academia. A tenured university data science associate professor at a top 100 university. Author of two data science books (one published and one online draft) and nearly 50 refereed publications. On top of machine learning engineering experience, industrial experience includes team leader, algorithm developer, real time software, integration with hardware, entrepreneurship, app development, and data science consulting. University experience includes research student supervision, editorship, event organization, public speaking, and teaching.

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WORK EXPERIENCE

The University of Queensland
Associate Professor
(Apr 2012 - Present)
Overview
Research, teaching, supervision, service, and industry engagement.

Fire Ball IT
ML Engineer
(Oct 2021 - Present)
Overview
Principal ML engineer. Deep learning models for fire detection using Tensorflow, PyTorch, and AWS.

Accumulation Point
Director and consultant
(Aug 2018 - Present)
Overview
Data science, statistics, and machine learning consultant.

One on Epsilon
Founder and software developer
(Jan 2016 - Dec 2019)
Overview
Startup founder releasing two iOS apps, and mathematics education content.

Rafael Advanced Defense Systems
Developer and Team Leader
(Oct 2001 - Aug 2006)
Overview
Software developer, algorithm developer, and team leader working on wireless communications systems.

Various institutions
Junior academic
(Aug 1999 - Apr 2012)
Overview
Various academic roles in teaching and research. The University of Haifa, Eindhoven University of Technology, CWI Amsterdam, and Swinburne.

NOTABLE PUBLICATIONS

Statistics with Julia: Fundamentals for Data Science, Machine Learning and Artificial Intelligence.
Springer
(Sep 2020)
🔗 https://statisticswithjulia.org/

The Mathematical Engineering of Deep Learning
CRC Press (+Draft online)
(Aug 2022)
🔗 https://deeplearningmath.org/

EDUCATION

Uni of Haifa
PhD, Applied Probability
(Sep 2005 - Feb 2009)

Uni of Haifa
MA, Statistics
(Sep 1999 - Jun 2001)

Uni of Haifa
BA, Economics and Statistics
(Sep 1996 - Jun 1999)

MInhal College
Coursework, Software Engineering
(Aug 1998 - Aug 1999)

SKILLS

Data Science and Statistics
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Machine Learning and AI
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PyTorch
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Tensorflow
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Python
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Julia
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C/C++
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AWS
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Web Development
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iOS Development
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EXPERIENCE IN APPLICATION AREAS

Agriculture	**Epidemiology**
Road Traffic	**Emergency and Defense**
Wireless Communications	**Education**
Power Systems	**Logistics**