Ayse Demir Davidson

Sr. Data Scientist/Artist/Instructor

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Programming Skills: Python (Matplotlib, TensorFlow, PyTorch, Pandas, Dash, Plotly), SQL, HTML & CSS, JavaScript (D3.js, p5.js, three.js)

Tools: TouchDesigner, Maya, Adobe Creative Suite, AWS SageMaker, Redshift, Tableau, Figma

EXPERIENCE

Career Sabbatical & Independent Research - Jul 2024 - Present

• Independent study sabbatical focused on writing, philosophy of technology and artificial intelligence

Sr Lead (L6), Data Science & Analytics, Amazon Web Services Inc.; San Francisco, CA — Jun 2022 - Jul 2024

• Led end-to-end design and deployment of data and ML products for sales and cloud intelligence, integrating predictive modeling, pipeline optimization, and interactive analytics; served as a technical multiplier by mentoring teams and developing internal training programs

Yoga Teacher, Lotusland Yoga; San Francisco, CA — Jan 2019 - Present

• Teaching restorative, yin, and gentle flow yoga classes

Creative Code Instructor, Gray Area Foundation for the Arts; San Francisco, CA — Jan 2020 - Dec 2023

• Designed and delivered creative coding intensive curriculum, building interactive installations that integrated real-world sensor data, generative algorithms, and custom visual interfaces; guided students from prototyping to deployment

Data Lead, Customer Data Science, Gap Inc.; San Francisco, CA — Jan 2018 - May 2022

• Managed embedded visual analytics initiatives for brand strategy teams, engineering custom applications and user interfaces to integrate data science models, simulations, and interactive dashboards into decision workflows

Junior Data Scientist, Old Navy E-commerce; San Francisco, CA — May 2016 - Jan 2018

• Led A/B testing and causal inference experiment design for Old Navy e-commerce, developing statistical models to measure impact and delivering actionable insights to senior leadership

Trainee Data Analyst, netPolarity, Inc.; San Jose, CA — Sep 2015 - Apr 2016

Digital Marketing Analyst Intern, BBDO Worldwide; Istanbul, Turkey — Jun 2014 - Aug 2014

SELECTED LECTURES & TEACHING

Course Designer&Instructor, Artificial Intelligence & Creativity, DDI Akademi; Istanbul, Turkey — Mar 2024 - Apr 2024

Speaker, Dreamforce, Visualizing Climate Data; Salesforce Inc.; San Francisco, CA — Sep 2022

Speaker, Non-linear Storytelling, Google Art Week, Alphabet Inc.; San Francisco, CA — May 2021

Course Designer&Instructor, Data Visualization with Python, Gray Area Festival; San Francisco, CA — Oct 2020

Course Designer&Instructor, Data Visualization Design, NTU Analytics Lab; San Jose, CA — Jun 2020 - Aug 2020

SPECIALIZED TRAINING

• Stanford University Online, Human-Centered Generative AI — Jul 2025

• Georgia Tech Online, Human-Computer Interaction: Cognition, Context & Culture— Spring 2025

• Philosophy Seminar - Instructor: Dr. Ömer Aygün, Groningen University — weekly, Feb 2024 - ongoing

  • Ancient Greek & Hellenistic philosophy & ethics

• Amazon Machine Learning University, Internal Modules — Jun 2022 - Mar 2024

  • Responsible AI - Bias Mitigation & Fairness Criteria

  • Explainable ML and Algorithmic Fairness

OTHER CERTIFICATIONS

Python for Confused Artists, Berlin School of Machines, 2024

Advanced Flow Yoga Teacher Training, Lotus Yoga School, 2020

Restorative Yoga Teacher Training, Lotus Yoga School, 2019

Studio Art Course in Computer Science, Gray Area Foundation for the Arts, 2019

Machine Learning by Stanford University, 2019

Vinyasa Yoga Teacher Training, Lotus Yoga School, 2018

EDUCATION

International Technological University, San Jose, CA - MS Digital Arts, 2017

Binghamton University, New York, NY - BS Managerial Information Systems, (Dual Diploma Program), 2015

Middle East Technical University, Ankara, Turkey - BS Business Administration, 2015