Fatih Uenal

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Portfolio: https://fuenal.github.io/

EDUCATION

Computer Science - AI & DS Specialization, MSc (2024-2026)	University of Colorado Boulder
Statistics & Data Science, MicroMasters (2025-2026)	MITx - Massachusetts Institute of Technology
Data Science Fellowship (2021)	Faculty AI London
Quantitative Social Sciences, PhD (2014-2017)	Humboldt University of Berlin

Experienced Data Scientist with over 10 years of professional experience in the fields of Data Analytics, Machine Learning, Deep Learning, Generative AI, scientific research, and applied statistics. Currently working at SBB AG in the area of Cyber Security. Specialized expertise in analyzing large datasets, developing scalable ML applications, data engineering, and data-driven reporting and analysis. Strong interest in security-critical infrastructures and financial systems.

EXPERIENCE

Company: SBB CFF FFS   15.04.2024 – Present
Title: Data Scientist – Cyber Security / Part-Time
- Conceptualized and implemented a data-driven Security Operations Center, mirroring the need for robust analytical infrastructure in sensitive domains like financial operations
- Led technical implementation and cross-functional coordination for key Data Science initiatives, including a data-driven Security Operations Center
- Reduced Phishing Email Triage time by 40% by programming an Automated Phishing Email Analysis Pipeline
- Python programming for cross-platform integration (Splunk, Microsoft XDR, ServiceNow)
- Optimized signal-to-noise ratio in security data, reducing false positive rates – principles directly transferable to maintaining high data quality in critical financial systems
- Use Case Engineering
- Workflow Automation reducing tasks reoccurring weekly, from 6 hours to 20 minutes
- Security Data Science (Dashboards for Management)

Company: DataIQ - Data Science Consultancy   01.01.2024 – 15.04.2024
Title: Senior Data Scientist / Part-Time
- Providing services in machine learning, deep learning, and survey methodology techniques in the marketing and finance domains to improve data-based decision-making.
- Marketing:
  - Automated Marketing Mix Modeling (MMM | Dash): Demo App
  - Customer Lifetime Value with Machine Learning (CLV | RFM): Demo App
  - Customer Segmentation Analysis (Scikit-learn | H2O)
  - A/B Testing
- Finance:
  - Machine Learning price forecasting (Multivariate | ARIMA | LSTM): Developed solutions highly applicable to financial time series and transaction data analysis: Demo App

- Time Series with Spark (Modeltime | Google Analytics Forecast)
- Forecasting at Scale (MetaFlow | Modeltime | AWS)
- Survey Methodology, Data Analysis, and Data Visualization:
  - Survey design and execution (cross-sectional, experimental, longitudinal) in Qualtrics
  - Descriptive and inferential data analysis (R, Python, SPSS, STATA)
  - Data visualization: [Demo App](#)

Company: University of Geneva   01.10.2021 – 31.12.2023
Title: Behavioral Data Scientist and Senior Researcher / Part-Time
- Built automated NLP pipeline to analyze over 16,000 scientific abstracts, supporting meta-analysis to be published in Nature Human Behaviour.
- Lead a [full-stack data science](#) project using *XGBoost* in python to investigate the most important features in predicting fossil fuel taxation preferences.

Company: Fossil Fuel Non-Proliferation Treaty Initiative   01.02.2021 – 31.12.2023
Title: Senior Data Scientist / Part-Time
- CRM: Customer Segmentation Analysis, [Automated Marketing Mix Modeling](#), [Customer Lifetime Value with Machine Learning](#), A/B Testing
- Programmed and deployed interactive [dashboard](#) visualizing policy database.
- Created and maintained fossil fuel supply policies database integrating data from various data sources.
- Developed an automation workflow for regular web-scraping to update databases.
- Presented data science efforts of company at [conferences](#) and via [webinars](#).
- Programmed an [artificial neural network](#) for fossil fuel policy text classification.

Company: University of Cambridge   01.09.2019 – 01.09.2021
Title: Data Scientist and Postdoctoral Fellow / Part-Time
- Conducted research on misinformation dissemination in social media. Results published in prestigious journal *[Big Data & Society](#)*.
- Utilized machine learning algorithms on survey data to analyze predictors of [decision making and behaviors](#).
- Developed an [interactive online course](#) to teach data science for behavioral and social scientists.
- Ran over 12 surveys (cross-sectional, experimental, longitudinal) on Qualtrics. Conducted in-depth data analysis, data visualization, and reporting. Resulting in three [high-impact publications in top social psychology journals](#).

Company: German Federal Ministry of Social Affairs   01.09.2018 – 01.09.2019
Title: Scientific Consultant / Full-Time
- Scientific consulting, survey methodology, and research.
- Survey design and implementation for population-level monitoring and evaluation.

Company: Harvard University   01.08.2016 – 31.08.2018
Title: Data Analyst and Postdoctoral Fellow / Full-Time
- Survey methodology and online experiments.
- Advanced statistical analysis (structural equation modeling, equivalence testing, A/B testing).

SKILLS AND TECHNOLOGIES

Progaming: Python, R, SQL, KQL
ML & AI: supervised & unsupervised learning, NLP, clustering (knn, PCA), decision trees, random forest, collaborative filtering, convolutional networks, reinforcement learning, XGBoost, Pytorch, Keras, Tensorflow, Fastai, ARIMA

Data Platforms: POSIT, AWS, GCP, MLflow, Streamlit
Statistics: Time Series, A/B Testing, SEM, Multi-level Modeling, Descriptive & Inferential Statistics
Tools: & Libraries Caret, Git, Docker, FastAI, Scikit-learn, Tidyverse, Dash, Posit, Numpy, Matplotlib, ggplot2, Pandas

CERTIFICATIONS

Harvard Data Science Professional
Measuring Causal Effects in the Social Sciences
MITx Fundamentals of Statistics (in Progress, expected 2025)
MITx Probability - The Science of Uncertainty and Data (in Progress, expected 2025)

LANGUAGES

German: Mother tongue | Turkish: Mother tongue | English: Professional | French: B1