Murat SAHIN | Sr. Data Science Engineer

HI, THERE!

I am an experienced and innovative international data scientist working on real life problems since 2019. I have problem solving and analytical thinking skills that I gained by taking part in dozens of different projects and leading data science teams for nearly 4 years. I believe that I have provided the greatest benefit to my colleagues with my gentle communication skills. I have fluent English so that I can easily administrate international meetings.

The technologies I feel competent in are Python, Linux, AWS, GCP, Docker and Git. I am proficient in exploratory data analysis, visualization, preprocessing and manipulation. I have been involved in dozens of real-life projects in the field of ML and DL (tensorflow). I have knowledge of statistics and mathematics, so I love to handle optimization problems. I am looking forward to creating pipelines and deploying APIs conforming to MLOps by using big data and cloud solutions in the next challenges! Of course, I take care to use coding standards, OOP and design patterns in projects.

I'm a data scientist, developer, public speaker, instructor, mentor, team lead, author and student.

PUBLICATIONS

- **ELDOR** - A Hybrid Stock Optimization Approach for Inventory Management
- **AMATIS** - Classification of ECG Signals by Deep Learning
- **FYSIOLOGIC** - Deep Learning Based Segmentation for the Detection of R Peaks in ECG Signals
- **COMPELLO** - Regression Based Risk Analysis in Life Insurance Industry
- **TAV** - Supervised Learning Approaches to Flight Delay Prediction
- **SYNTHETHIC** - Comparison of GAN Based Synthetic Tabular Data Generation Approaches

CERTIFICATIONS

- **AWS** Certified Cloud Practitioner [2023 Feb. - 2026 Feb.]
- **AWS** Cloud Tech. Bootcamp Miuul [2023 Jan. - 2023 Mar.]
- **GCP** Data Engineering & Big Data [2021 Oct. - 2022 Jan.]

CONTACT

muratpq@gmail.com

medium.com/@datasciengine

youtube.com/@datasciengine

linkedin.com/in/datasciengine

github.com/datasciengine

EDUCATION

PhD. (2023)

Computer Engineering (English)
Dokuz Eylul University

MSc. (2021-2023)

Computer Engineering (English)
Izmir Bakircay University

Bachelor (2015-2020)

Software Engineering (GPA 3.45)
Manisa Celal Bayar University

Vocational HS (2010-2014)

IT - DB Management
Graduated with first degree (GPA 3.6)
Salur Anadolu Teknik Lisesi

INSTRUCTOR

Philip Morris International
Data Science Bootcamp
(2020 Jan - 2021 Mar.)

Bakircay University
Computer Eng. Teaching Assistant
(2020 Jan. - Jun.)

Commencis
Data Science Bootcamp
(2020 Nov - 2021 Jan.)

Inci Holding
Industry 4.0 with AI Concept.
(A week in 2021 May.)

Kalybe.AI
Internal Bootcamp
(2022 Summer Internship)

Yıldız Technical University
Image Processing Bootcamp
(2022 Nov. - Dec.)

WORK EXPERIENCE & PROJECTS

1. Fysiologic (NL) - ECG Analysis (2021 - 2022)
signal processing & filtering, fft, cnn, kmeans, catboost, message queuing, multi-process, cloud
Python, Tensorflow, SciPy, RabbitMQ, EC2, GPU

2. KariyerNet - Job Advertisement Generator (2020)
lstm, gru, tokens, normalization, w2vec, linux, gpu
Python, Tensorflow, Gensim, NLTK, Azure Instance

3. Eldor Group - Predictive Maintenance (2020)
time series, signal processing, trend detection
Python, Pandas, Numpy, SciPy

4. Eldor Group - Stock Optimization (2021)
time series, simulation, clustering, optimization algorithms, hill climbing
Python, Pandas, Numpy, SciPy

5. Eldor Group - Loose Wire Classification (2021)
image processing, deep learning
Python, Tensorflow, Numpy, OpenCV

6. Eldor Group - Fake Defect Classification (2020)
image processing, deep learning
Python, Tensorflow, Numpy, OpenCV

7. Norm Fasteners - Fastener Recognizer (2022)
image processing, deep learning, containerisation, api service, deployment
Python, Tensorflow, YOLO, Docker, FastAPI, EC2

8. Flow View (EU) - Flow Cytometry Analysis (2021)
data visualization, dimensional reduction, pca
Python, MatLab, Seaborn, Plotly, SkLearn, FlowKit

9. DataKod - Customer Segmentation, RFM (2020)
clustering, visualization, rfm
Python, Pandas, Seaborn, Numpy

10. DataKod - Sales Forecast (2021)
time series, arima, auto-regressive, lstm, gru
Python, StatsModel, Keras, Seaborn

11. Vakif Katilim - Award Winning Quiz (2022)
data analytics, clustering, text processing
Python, Pandas, Numpy, Scikit-Learn

12. Yurtici Kargo - Customer Complaint Analysis (2020)
feature extraction, data manipulation, data analysis
Python, Pandas, Numpy, Seaborn, Plotly

13. MNG Kargo - Lost Cargo Matcher (2022)
optical character recognition, approximate string matching, data manipulation, sql-db
Python, Tesseract, Levenshtein, OracleDB

14. Data-Sphere - Synthetic Data Solution (2022)
gan, vae, statistic, probability, distributions, copula, differential privacy, inference attacks
Python, Tensorflow, RabbitMQ, EC2, GPU

15. Maxion Wheels - Wheel Production Optim. (2021)
optimization, machine learning, decision tree, explainable artifical intelligence
Python, PyQt, Scikit-Learn, Seaborn, Scikit-Learn

16. Boyner - Question Answering System (2022)
transformers, bert, seq2seq, text correction, attacks
Python, Pytorch, HuggingFace, Zemberek, EC2

17. Vinter - Async HR Product (2023)
facial expression analysis, transcript analysis, facial recognition, prompt engineering, voice analysis, containerization, mlops
Python, AWS, Whisper, OpenAI, Azure, Docker, FastAPI

18. Istanbul Proje - Customizable ChatBot (2023)
prompt engineering, rest api, containerization, mlops
Python, GCP, Whisper, OpenAI, Docker, FastAPI