



Muhammed Büyükkınacı

Senior Data Scientist



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About me

I am a T-shaped Data Scientist who has general knowledge and experience on different IT areas such as Machine Learning Engineering, Amazon Web Services, System Engineering, Back-End Development, Data Engineering and Software Testing. I have more than 7 years of experience in Python.

My passion is to bring innovation and value through cross-functional collaboration. I follow Design Principles to build real-world Data Science projects with end-to-end pipelines. I am also working on integrating MLOps practices into my work. Beyond these aspects, I am not only an IT Engineer but also an eager lifelong learner.

Besides my technical expertise, I am an extroverted and open-minded person with excellent communication skills. I leverage both my soft and hard skills to position myself as a leading engineer in the industry.

Experience

Dec 2021
Present

Senior Data Scientist

Hepsiemlak

- Designed and implemented an ETL pipeline using Apache Airflow on Kubernetes, automating data processing from multiple sources, optimizing performance, and ensuring efficient data integration for enhanced decision-making and operational efficiency.
- Developing a Hybrid Recommendation System based on Content Based Filtering and collaborative data. Finding similar listings with a Siamese Neural Network. Serving as the backbone of personalized emails, pushes and widgets.
- Predicting sales and rental prices of homes using Machine Learning. Finding low-priced homes. Building up a REST API that predicts prices of homes via ML models real-time.
- Stack: Python, LightGBM, FastAPI, Hadoop, AWS, Docker.
- Developing a watermark removal project in order to increase photo quality.
- Stack: Python, PyTorch, Transfer Learning, RabbitMQ, Docker, AWS.
- Developing an image quality scoring project to be used among different places such as filtering appropriate images, sorting images, choosing showcase image etc.
- Stack: Python, PyTorch, Transfer Learning, Kafka, Docker.

Oct 2019
Dec 2021

Data Scientist

Urbanstat

- Created an ML based risk scores of automobiles & houses for the use of insurance companies. Lowered loss ratios up to 7%.
- Stack: Python, Flask, LightGBM, PostgreSQL, Docker.
- Predicted wildfires and dangerous regions in California & West Coast of USA using ML algorithms. Outperformed predictions of state government. Used SHAP library for interpretable outputs.
- Developed an ML based churn analysis for house policies.

Sep 2018
Oct 2019

Fraud Systems Engineer

Turkcell

- Took part in an ML project aiming to predict which customers were going to object to their invoices. Dealt with an unbalanced problem.
- Monitored Fraud & Credit Control services of Turkcell. Managed several Physical & Virtual Machines. Deployed software packages on live environment. Used Linux and SQL a lot.

Apr 2018
Aug 2018

Junior Data Scientist

Organon Analytics

- Designed dashboards for end users via Shiny library of R.
- Dealt with Customer Segmentation Analysis through Clustering.

Education

2012 Sep
2018 Jan

Bachelor of Science, Industrial Engineering

Boğaziçi University

- Took Statistics, Data Mining & Time Series Forecasting courses.
- Forecasted hourly electricity consumption of a specific region using different Machine Learning Algorithms in my graduation project.

Achievements

Kaggle

Kaggle Expert

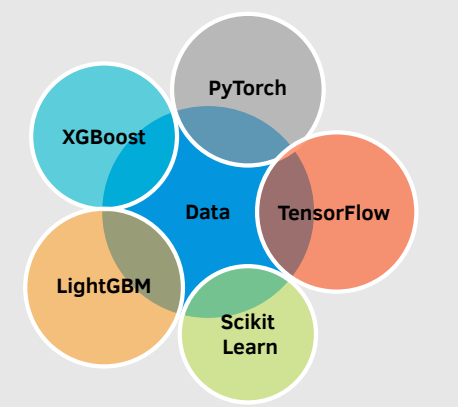
- Collected 3 silver and 2 bronze medals. Joining 20+ competitions.

2012 YGS

Ranked 300th in Turkey

- Attained a position of 300th among 1.86 million candidates in the 2012 YGS (The Transition to Higher Education Examination).

ML Libraries



Technical Skills

• Python

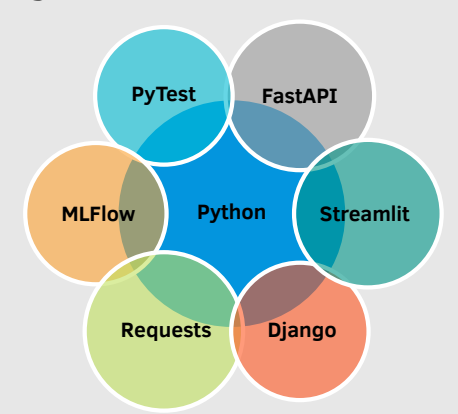
• AWS • Airflow • Docker

• Linux • SQL • Git

• Microsoft Office • MLOps • Hadoop

• Jenkins • Spark • Kubernetes

Python Libraries



Languages

Turkish (C2 - Native Language)

English (C1 - Professional Work Ability)

Arabic (A2 - Elementary Level)

Projects

Django App	muhammedbuyukkinaci.com <div>GitHub Link</div> <ul style="list-style-type: none">A Django Application deployed on a VPS of DigitalOcean.
Behavioral Economics	The Effect of Costly Reporting on Coordination Behavior <ul style="list-style-type: none">A Study of Helping and Retaliation in behavioral economics.Developed the experiment using Python's OTree library, which is a Django wrapper.Prepared the experiment for different scenarios.The developed project to be used in the academic research of respectable professors such as Arhan Ertan, Louis Putterman and Kenju Kamei.
Ecological Inference	Unveiling The Dynamics of Vote Flows in Turkey's Elections <ul style="list-style-type: none">The project developed for a research center focusing on Social Sciences. Aimed to understand vote flows between political parties in different elections.Used PyEI library of Python in order to develop an ecological inference model. County-level data used to build the model.Had converged results with reasonable 95th percentile confidence intervals for the 2023 and 2024 elections.

Certificates

AWS	Introduction to Amazon Web Services <div>Certificate Link</div> <ul style="list-style-type: none">Completed a 25-hours AWS Course on Udemy.Learned fundamentals of AWS and services like EC2, S3, IAM, VPC, RDS, ECR, EKS and DynamoDB etc.
Docker	Docker A-Z™ <div>Certificate Link</div> <ul style="list-style-type: none">Completed a 16-hours course on Udemy. Learned basics of Docker.
Kubernetes	Kubernetes Basics <div>Certificate Link</div> <ul style="list-style-type: none">Completed a 17-hours Kubernetes Course on Udemy.Learned fundamentals of Kubernetes and K8s objects such as Pod, Deployment, Service, Ingress, Cronjob etc.
MLOps	Complete MLOPS Bootcamp <div>Certificate Link</div> <ul style="list-style-type: none">Completed a 3.5 hours MLOps course.Learned useful tools for MLOps practices.
Linux	Linux A-Z™ <div>Certificate Link</div> <ul style="list-style-type: none">Completed a 10-hours Linux Course on Udemy.Elevated my Linux knowledge to an advanced level.
Big Data	Big Data A-Z™ <div>Certificate Link</div> <ul style="list-style-type: none">Completed a 12-hours Big Data Course on Udemy.Learned basics of Apache Kafka, Apache Hive, Hadoop, Apache Spark and other NoSQL technologies.
Airflow	Introduction to Apache Airflow <div>Certificate Link</div> <ul style="list-style-type: none">Completed a 2.5 hours Airflow course.Learned fundamentals of Airflow.