

# Muhammed Buyukkinaci

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 6 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

### Data Scientist

Hepsiemlak

- 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 and mobile pushes.
- 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-timely.  
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.
- Building up a Fraud Detection System for Affiliate Marketing project.
- Computing price indexes of locations using Apache Spark.

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 that aimed 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

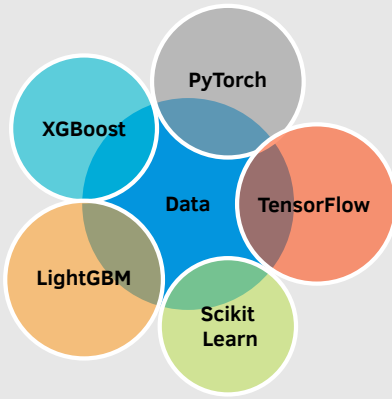
- Collected 3 silver and 2 bronze medals. Joining 20+ competitions.

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



## Programming Skills

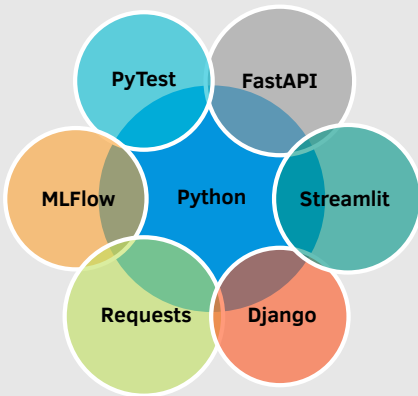
• Python

• Linux • SQL • Docker

• Microsoft Office • MLOps • Git

• AWS • Airflow • Kubernetes

# Python Libraries



## Languages

Turkish (C2 - Native Language)

English (C1 - Professional Work Ability)

Arabic (A2 - Elementary Level)

# Projects

Django App

**muhammedbuyukkinaci.com**

[GitHub Link](#)

- A Django Application deployed on a VPS of DigitalOcean.

Time Series

**Bitcoin Trading**

[GitHub Link](#)

- Built up an LSTM model to predict price volatility on 4-hourly Bitcoin data.
- Obtained a fractional signal for trading.

Image Segmentation

**DeText**

[GitHub Link](#)

- Created a simulated dataset by overlaying text on images.
- Trained a UNet model to remove text from images via TensorFlow.

# Certificates

AWS

**Introduction to Amazon Web Services**

[Certificate Link](#)

- 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™**

[Certificate Link](#)

- Completed a 16-hours course on Udemy. Learned basics of Docker.

Kubernetes

**Kubernetes Basics**

[Certificate Link](#)

- 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**

[Certificate Link](#)

- Completed a 3.5 hours MLOps course.
- Learned useful tools for MLOps practices.

Linux

**Linux A-Z™**

[Certificate Link](#)

- Completed a 10-hours Linux Course on Udemy.
- Elevated my Linux knowledge to an advanced level.

Big Data

**Big Data A-Z™**

[Certificate Link](#)

- 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**

[Certificate Link](#)

- Completed a 2.5 hours Airflow course.
- Learned fundamentals of Airflow.