

# Muhammed Büyükkınacı

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## Professional Summary

Data Scientist with over 6 years of comprehensive experience in Python and a strong focus on Natural Language Processing (NLP), Machine Learning Engineering, and large language model training. Proven expertise in implementing and optimizing machine learning algorithms, utilizing the langchain and RAG frameworks, and evaluating model performance using relevant metrics. Skilled in cross-functional collaboration and committed to continuous improvement, delivering reliable and impactful results in data-driven projects.

## Skills

### Machine Learning:

Python, LightGBM, PyTorch, Hadoop, FastAPI, Docker, Natural Language Processing, Langchain Framework, RAG Framework

### Cloud Services:

AWS, Azure, EC2, S3, IAM, VPC, RDS, ECR, EKS, DynamoDB

### Data Engineering:

Apache Spark, PostgreSQL, Data Analytics

### Development:

Flask, Django

### Tools:

MLFlow, PyTest, RabbitMQ, Evaluation Metrics Tools

### Technical Skills:

SQL, Linux, Docker, Kubernetes, Airflow

## Professional Experience

### *Data Scientist*

Hepsiemlak –

Dec 2021 - Present

- Predicting sales and rental prices of real estates using advanced Machine Learning techniques.
- Identifying and recommending low-priced real estates through robust analysis.
- Developing a REST API for real estate price prediction leveraging machine learning models.
- Creating various projects focused on image regression, segmentation, and classification.
- Designing and implementing a Fraud Detection System for Affiliate Marketing initiatives.
- Computing location-based price indexes with Apache Spark to drive data-driven insights.

### *Data Scientist*

Urbanstat –

Oct 2019 - Dec 2021

- Developed machine learning-based risk scores for automobiles and houses to assist insurance companies.
- Achieved a reduction in loss ratios by up to 7% through effective predicative modeling.
- Utilized machine learning algorithms to predict wildfires and identify hazardous regions in California and the West Coast.
- Provided predictions that exceeded those of state government sources, employing SHAP for interpretability.
- Engineered machine learning solutions for analyzing customer churn in house policies.

### ***Fraud Systems Engineer***

Turkcell –  
Sep 2018 - Oct 2019

- Contributed to a machine learning project predicting customer objections to invoicing, enhancing customer retention strategies.
- Monitored and optimized Fraud and Credit Control services at Turkcell, ensuring service integrity.
- Managed both Physical and Virtual Machines, optimizing performance and deployment strategies.
- Implemented and deployed software packages in live environments, demonstrating strong Linux and SQL proficiencies.

### ***Junior Data Scientist***

Organon Analytics –  
Apr 2018 - Aug 2018

- Designed interactive dashboards using the Shiny library in R for end-users to visualize crucial data metrics.
- Conducted customer segmentation analysis through clustering techniques, promoting targeted marketing strategies.

## **Projects**

### ***Django App***

Developed a Django application deployed on a DigitalOcean VPS, featuring a user-friendly interface and robust backend.

### ***Bitcoin Trading Series***

Engineered an LSTM model to predict price volatility on hourly Bitcoin data, generating actionable trading signals.

### ***Image DeSegmentation***

Constructed a simulated image dataset to train a UNet model for text removal from images, utilizing TensorFlow effectively.

## **Education**

## ***Bachelor of Science***

Boğaziçi University

Graduation Year: 2012

Relevant Courses: Statistics, Data Mining, Time Series Forecasting, Natural Language Processing

## **Certifications**

Introduction to Amazon Web Services, Issued:

Docker A-Z™, Issued:

Kubernetes Basics, Issued:

Complete MLOPS Bootcamp, Issued:

Linux A-Z™, Issued:

Big Data A-Z™, Issued:

Introduction to Apache Airflow, Issued:

Advanced Natural Language Processing, Issued:

## **Technical Proficiencies**

Programming languages: Python

Machine learning libraries: LightGBM, XGBoost, Scikit-Learn, TensorFlow, PyTorch, Langchain Framework, RAG Framework

Devops tools: Docker, Kubernetes, Airflow

## **References**

Available upon request.