

Muhammed Büyükkınacı

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Professional Summary

Experienced Data Scientist and Machine Learning Engineer with over 6 years of dedicated experience in developing and deploying advanced machine learning models. Proficient in large-scale model optimization, natural language processing (NLP), and cloud technologies including Amazon Web Services (AWS). My background includes a strong focus on healthcare applications, contributing to improved patient outcomes through data-driven solutions. Adept at utilizing MLOps practices, fostering cross-functional collaboration, and driving innovative projects that enhance efficiency and performance.

Skills

Machine Learning:

Python, LightGBM, PyTorch, TensorFlow, Apache Spark, Natural Language Processing, Generative AI

Cloud Services:

AWS, Docker, Kubernetes, Azure

Programming:

Python, SQL, Linux, API Development

Professional Experience

Data Scientist

Hepsiemlak –

Dec 2021 - Present

- Spearheaded the development of machine learning models to accurately predict sales and rental prices of real estate, facilitating data-driven decision making.
- Engineered and deployed a robust REST API that leverages ML models for real-time pricing predictions, enhancing user experience.
- Led multiple image processing projects involving regression, segmentation, and classification techniques, showcasing strong analytical skills.
- Innovated a Fraud Detection System for Affiliate Marketing, significantly reducing fraudulent activities and improving revenue.
- Utilized Apache Spark for data-intensive calculations, computing location-based price indexes to assist market analyses.

Data Scientist

Urbanstat –

Oct 2019 - Dec 2021

- Developed ML algorithms to create risk scoring models for automobiles and properties, effectively reducing loss ratios by up to 7% for insurance providers.
- Implemented machine learning techniques to predict wildfires across California and the West Coast, contributing to preventive measures and community safety.

- Designed churn analysis frameworks for household policies and leveraged SHAP library for interpretability, enhancing client communication and retention strategies.

Fraud Systems Engineer

Turkcell –

Sep 2018 - Oct 2019

- Collaborated on an ML project aimed at predicting customer objections to invoices, optimizing billing processes.
- Managed and monitored fraud detection services across both physical and virtual environments, ensuring high availability and performance.
- Successfully deployed software packages into live environments, overseeing the implementation process from development to production.

Junior Data Scientist

Organon Analytics –

Apr 2018 - Aug 2018

- Developed user-centric dashboards using Shiny in R to facilitate data visualization and interpretation for end users.
- Conducted customer segmentation analyses through clustering techniques, enhancing targeted marketing strategies.

Projects

Django App

Developed a Django Application hosted on a VPS at DigitalOcean, implementing best practices in software development and deployment.

Bitcoin Trading Series

Constructed an LSTM model that accurately predicted price volatility in Bitcoin over 4-hour intervals, providing actionable insights for trading strategies.

Image DeSegmentation

Created a simulated dataset for training a UNet model using TensorFlow to effectively remove text overlays from images, enhancing image clarity.

Education

Bachelor of Science

Boğaziçi University

Graduation Year: 2012

Relevant Courses: Statistics, Data Mining, Time Series Forecasting

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:

Technical Proficiencies

Machine learning libraries: PyTorch, XGBoost, LightGBM, Scikit-Learn, TensorFlow, Natural Language Processing, Generative AI

Programming skills: AWS, Azure, Airflow, Kubernetes, Microsoft Office, MLOps, Git, Linux, SQL, Docker, Python

References

Available upon request.