

Muhammed Büyükkınacı

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Professional Summary

Results-driven Data Scientist with over 6 years of robust experience in AI and Machine Learning, specializing in the development of production-quality ML solutions. Proficient in utilizing Python and popular ML frameworks such as TensorFlow and PyTorch. Proven ability to craft innovative AI products and integrate MLOps practices in cloud environments, particularly AWS. Excel at driving data-driven insights through collaboration and continuous improvement, focused on solving complex challenges in diverse data landscapes.

Skills

Machine Learning:

Python, LightGBM, PyTorch, TensorFlow, Apache Spark, XGBoost, Scikit-Learn

Cloud Services:

AWS, Docker, Kubernetes, Azure

Programming:

Python, SQL, NoSQL, Linux, Golang, Java, C++

Professional Experience

Senior Data Scientist

Hepsiemlak –

Dec 2021 - Present

- Developed advanced Machine Learning models for predicting sales and rental prices in real estate, increasing accuracy and reducing prediction error margins.
- Architected and deployed a REST API for real estate price predictions, enabling seamless integration with client applications.
- Led multiple projects focusing on image regression, segmentation, and classification, utilizing deep learning techniques.
- Designed and implemented a Fraud Detection System within Affiliate Marketing projects, leveraging anomaly detection algorithms.
- Streamlined computations for location-based price indexes, achieving significant performance optimization using Apache Spark.

Data Scientist

Urbanstat –

Oct 2019 - Dec 2021

- Developed ML-based risk assessment models for automobiles and houses, effectively reducing loss ratios for insurance providers by up to 7%.
- Leveraged advanced machine learning algorithms to predict wildfire risks in California and the West Coast, directly contributing to proactive environmental management.

- Created ML-driven churn analysis models, enhancing retention strategies for households.
- Utilized SHAP library for generating interpretable AI outputs, enhancing stakeholder understanding of model predictions.

Fraud Systems Engineer

Turkcell –
Sep 2018 - Oct 2019

- Contributed to a machine learning initiative focused on predicting customer objections to invoices, improving operational efficiency.
- Oversaw daily operations of Fraud and Credit Control services, maintaining performance across physical and virtual infrastructure.
- Executed deployment of key software packages in live environments, ensuring operational reliability.

Junior Data Scientist

Organon Analytics –
Apr 2018 - Aug 2018

- Developed interactive dashboards for end-users using R's Shiny library, improving insights accessibility.
- Conducted customer segmentation analysis utilizing clustering techniques, enhancing targeted marketing initiatives.

Projects

Django App

Developed a comprehensive Django application deployed on DigitalOcean, showcasing skills in back-end development and database management.

Bitcoin Trading Series

Engineered a Long Short-Term Memory (LSTM) model to predict price volatility on 4-hour Bitcoin datasets, enhancing trading strategy effectiveness.

Image DeSegmentation

Innovated a simulated dataset by overlaying text on images and trained a UNet model for text removal, utilizing TensorFlow for deep learning model training.

Education

Bachelor of Science

Bozüyük University
Graduation Year: 2012

Relevant Courses: Statistics, Data Mining, Machine Learning, 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, Hugging Face, Google Cloud AI

Programming skills: Python, Golang, Java, C++, AWS, Airflow, Kubernetes, Microsoft Office, MLOps, Git, Linux, SQL, NoSQL, Docker

References

Available upon request.