

Muhammed Büyükkınacı

Email: muhammedbuyukkinaci@gmail.com | Phone: +90 552 219 01 50 | LinkedIn: MuhammedBuyukkinaci | Github: muhammedbuyukkinaci.com | Location: Istanbul-Turkey

Professional Summary

Accomplished Data Scientist with over 6 years of comprehensive experience in machine learning, specializing in large language model (LLM) training, natural language processing (NLP), and advanced analytical techniques. Proficient in utilizing cloud-based services including AWS and Azure. Recognized for exceptional problem-solving capabilities and collaborative approach in cross-functional environments, dedicated to driving impactful data-driven solutions.

Skills

Machine Learning:

Python, LightGBM, PyTorch, NLP, LangChain, RAG, Hadoop, FastAPI, Docker

Cloud Services:

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

Data Engineering:

Apache Spark, PostgreSQL

Development:

Flask, Django

Tools:

MLFlow, PyTest, RabbitMQ

Technical Skills:

SQL, Linux, Docker, Kubernetes, Airflow, Data Analytics

Professional Experience

Data Scientist

Hepsiemlak –

Dec 2021 - Present

- Led the development and training of machine learning models to predict sales and rental prices of real estate, utilizing advanced evaluation metrics to enhance model performance.
- Designed and implemented an AI-driven REST API for real estate price predictions leveraging NLP techniques and machine learning algorithms.
- Executed image regression and classification projects, enhancing the robustness of image-based analytics.
- Developed a Fraud Detection System for an Affiliate Marketing project, employing advanced machine learning strategies.
- Utilized Apache Spark to compute and analyze price indexes of various locations, generating actionable insights.

Data Scientist

Urbanstat –

Oct 2019 - Dec 2021

- Developed machine learning-based risk assessment models for automobiles and homes, directly collaborating with insurance companies.
- Achieved a significant reduction in loss ratios by analyzing and optimizing predictive models, resulting in savings of up to 7%.
- Implemented sophisticated predictive models to identify and assess wildfire risks in California and the West Coast, surpassing local government forecasting accuracy.
- Facilitated model interpretability by utilizing the SHAP library, enhancing stakeholder understanding of risk factors.
- Conducted churn analysis for home insurance policies using advanced machine learning techniques, providing insights that informed customer retention strategies.

Fraud Systems Engineer

Turkcell –

Sep 2018 - Oct 2019

- Contributed to a machine learning initiative aimed at predicting customer disputes regarding billing, utilizing data analytics to enhance service reliability.
- Monitored and optimized Fraud and Credit Control services, maintaining high operational standards.
- Managed both physical and virtual server environments, ensuring seamless deployment of machine learning models in production.
- Extensively utilized Linux and SQL to support fraud detection systems and enhance data accessibility.

Junior Data Scientist

Organon Analytics –

Apr 2018 - Aug 2018

- Developed interactive dashboards for end users utilizing the Shiny library in R, enhancing data visualization and accessibility.
- Performed customer segmentation analysis through clustering techniques, providing insights that informed marketing strategies.

Projects

Django App

A Django application deployed on a VPS of DigitalOcean, showcasing user-friendly interactions and data management capabilities.

Bitcoin Trading Series

Developed an LSTM model to analyze price volatility on 4-hourly Bitcoin data, successfully delivering real-time trading signals.

Image DeSegmentation

Created a simulated dataset by overlaying text on images and trained a UNet model using TensorFlow to accurately remove text, enhancing image clarity for analytics.

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:

Natural Language Processing Specialization, Issued:

Azure AI Fundamentals, Issued:

Technical Proficiencies

Programming languages: Python

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

Devops tools: Docker, Kubernetes, Airflow, Azure DevOps

References

Available upon request.