Muhammed Büyükk■nac■

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

Professional Summary

Results-driven Data Scientist with over 6 years of experience in developing and deploying production-grade machine learning models. Proficient in Python and its data science libraries, with a strong track record in statistical analysis, cloud computing, and data management. Committed to enhancing operational efficiency through advanced analytics and cross-functional collaboration, particularly focused on infrastructure capacity planning and demand forecasting.

Skills

Machine Learning:
Python, LightGBM, XGBoost, PyTorch, Hadoop, FastAPI, TensorFlow, Docker
Cloud Services:
AWS, 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

Professional Experience

Senior Data Scientist

Hepsiemlak –
Dec 2021 - Present
• Developing and optimizing machine learning models for predicting sales and rental prices of real estate, leveraging anomaly detection techniques to ensure model accuracy.
• Conducting in-depth analysis to identify market trends and create actionable insights for strategic decision-making.
• Building and maintaining a robust REST API for model deployment, enabling real-time price predictions and data accessibility.
• Designing advanced projects in image regression, segmentation, and classification, improving data utilization and analytics.
• Implementing a Fraud Detection System for an Affiliate Marketing project using machine learning methodologies.
• Utilizing Apache Spark for efficient price index calculation and forecasting over large datasets.

Data Scientist

Urbanstat –
Oct 2019 - Dec 2021
• Engineered machine learning risk scoring models for automotive and housing insurance sectors, achieving a loss ratio reduction of up to 7%.
• Developed predictive models for wildfire occurrences across California and the West Coast, surpassing state government prediction accuracy through advanced statistical techniques.
• Applied SHAP for model interpretability, facilitating better understanding and trust in predictive analytics.
• Conducted churn analysis for household insurance policies, resulting in improved retention strategies through data-driven insights.

Fraud Systems Engineer

Turkcell –
Sep 2018 - Oct 2019
• Participated in a machine learning initiative focused on predicting customer objections to invoices, enhancing customer experience.
• Oversaw fraud and credit control services, applying statistical models for effective monitoring and mitigation.
• Managed both physical and virtual machine environments, ensuring the seamless deployment of software packages with a focus on performance optimization.
• Extensively utilized SQL and Linux for data management and operational processes.

Junior Data Scientist

Organon Analytics –
Apr 2018 - Aug 2018
• Developed interactive dashboards using the Shiny library in R, providing valuable insights into customer segmentation analysis through clustering techniques.
• Executed detailed data analyses to facilitate operational and strategic decision-making.

Projects

Django Cloud App

A Django application hosted on DigitalOcean, designed to streamline data analytics and reporting for cloud services.

Bitcoin Price Prediction

Constructed an LSTM model to forecast price volatility in Bitcoin markets, generating signals for trading decisions under market uncertainty.

Image DeSegmentation and Restoration

Developed a dataset by simulating text overlay on images; trained a UNet model using TensorFlow for effective text removal, enhancing data quality for machine learning applications.

Education

Master of Science in Data Science

Boğaziçi University
Graduation Year: 2012
Relevant Courses: Advanced Statistics, Data Mining, Time Series Forecasting, Operations Research

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

Programming languages: Python, R
Machine learning libraries: LightGBM, XGBoost, Scikit-Learn, TensorFlow, PyTorch
Devops tools: Docker, Kubernetes, Airflow

References

Available upon request.