Muhammed Büyükk■nac■

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Professional Summary

Dynamic and results-driven Data Scientist with over 6 years of experience specializing in Machine Learning Engineering and model deployment. Proven track record of solving complex business challenges using advanced machine learning techniques. Highly skilled in Python and prominent libraries such as TensorFlow and PyTorch, alongside robust understanding of MLOps practices. Adept at collaborating with cross-functional teams to drive innovation and deliver high-quality solutions in fast-paced environments.

Skills

Machine Learning:
Python, LightGBM, PyTorch, TensorFlow, Apache Spark, Supervised Learning, Unsupervised Learning, Model Deployment, Natural Language Processing, Large Language Models
Cloud Services:
AWS, Docker, Kubernetes, GCP, MLOps Tools
Programming:
Python, SQL, Linux, Git

Professional Experience

Machine Learning Engineer

Hepsiemlak –
Dec 2021 - Present
• Designed and deployed machine learning models to predict sales and rental prices of real estate, leveraging advanced techniques including regression and classification.
• Developed a robust REST API that serves real estate price predictions using machine learning algorithms, enhancing client engagement and decision-making.
• Led the creation of image processing projects focused on regression, segmentation, and classification to derive insights from visual data.
• Engineered a Fraud Detection System for Affiliate Marketing by applying machine learning and anomaly detection methods.
• Utilized Apache Spark for computing dynamic price indexes of locations, optimizing data processing workflows for scalability.

Machine Learning Scientist

Urbanstat –
Oct 2019 - Dec 2021
• Developed machine learning-based risk scoring systems for automotive and housing insurance, resulting in a reduction of loss ratios by up to 7%.

• Created predictive models to forecast wildfires in California and the West Coast, enhancing regional safety through data-driven insights.
• Implemented churn analysis for insurance policies utilizing advanced machine learning algorithms, providing critical insights for customer retention strategies.
• Applied SHAP techniques for model interpretability, facilitating better understanding of model decisions for stakeholders.

Fraud Systems Engineer

Turkcell –
Sep 2018 - Oct 2019
• Participated in a machine learning initiative aimed at predicting customer objections to invoices, improving customer service turnaround times.
• Monitored and optimized Fraud & Credit Control services while managing both physical and virtual machine environments for operational efficiency.
• Deployed machine learning models and software packages in live environments, ensuring high availability and performance.

Junior Data Scientist

Organon Analytics –
Apr 2018 - Aug 2018
• Designed and implemented interactive dashboards for end users using the Shiny library in R, improving data visualization and accessibility.
• Conducted customer segmentation analysis through clustering techniques, providing actionable insights for client marketing strategies.

Projects

Django App

Developed and deployed a Django application on a DigitalOcean VPS, showcasing skills in web development and cloud deployment.

Bitcoin Trading Series

Designed an LSTM model to predict Bitcoin price volatility on 4-hourly data, achieving a precision trading signal that enhances trading strategies.

Image DeSegmentation

Created a simulated dataset with overlaid text on images and trained a UNet model using TensorFlow to effectively remove text from images, demonstrating expertise in computer vision.

Education

Bachelor of Science

Bo■aziçi University
Graduation Year: 2012
Relevant Courses: Statistics, Data Mining, Time Series Forecasting, Machine Learning

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

References

Available upon request.