Muhammed Büyükk■nac■

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Professional Summary

Results-driven Data Scientist with over 6 years of comprehensive experience in data analysis, machine learning, and quality control projects. Proven expertise in Python, AWS, and engineering principles with a strong focus on delivering precise, analytical insights and supporting cross-functional collaborations in high-stakes environments. Committed to continuous improvement in project execution and driving operational excellence.

Skills

Machine Learning:
Python, LightGBM, PyTorch, Hadoop, FastAPI, Docker
Cloud Services:
AWS, EC2, S3, IAM, VPC, RDS, ECR, EKS, DynamoDB
Data Engineering:
Apache Spark, PostgreSQL
Development:
Flask, Django
Quality Assurance:
Regulatory Compliance, ISO Standards, BOM Verification, Pre-shipment Inspection
Tools:
MLFlow, PyTest, RabbitMQ, Microsoft Office Suite
Technical Skills:
SQL, Linux, Docker, Kubernetes, Airflow, Quality Control Tools

Professional Experience

Data Scientist

Hepsiemlak –
Dec 2021 - Present
• Led the development of machine learning models for predicting sales and rental prices, enhancing forecasting accuracy.
• Collaborated with cross-functional teams to assess low-priced real estate opportunities, integrating data-driven insights.
• Constructed a robust REST API to provide real-time predictions of real estate prices based on complex ML models.
• Executed multiple image processing projects to analyze and classify property images, ensuring quality control in visual data.
• Designed a Fraud Detection System for Affiliate Marketing initiatives, improving financial oversight in promotional endeavors.
• Utilized Apache Spark to compute comprehensive price indexes, enhancing market analysis and decision-making across teams.

Data Scientist

Urbanstat –
Oct 2019 - Dec 2021
• Developed machine learning-based risk assessment tools for auto and property insurance, reducing loss ratios by up to 7%.
• Engaged in predictive modeling of wildfires using advanced algorithms, surpassing state government forecasts with accuracy.
• Applied SHAP for generating interpretable outputs, facilitating communication of risk factors to stakeholders.
• Conducted churn analysis for insurance policies, providing actionable insights to improve customer retention and service offerings.

Fraud Systems Engineer

Turkcell –
Sep 2018 - Oct 2019
• Participated in a machine learning project focused on predicting customer disputes regarding billing, enhancing customer service protocols.
• Oversaw Fraud and Credit Control systems, ensuring alignment with quality standards and operational efficiency.
• Managed both physical and virtual machines, ensuring seamless deployment and uptime of critical software packages.
• Extensively utilized Linux and SQL for data management and quality control processes, ensuring data integrity and reliability.

Junior Data Scientist

Organon Analytics –
Apr 2018 - Aug 2018
• Designed and implemented interactive dashboards via the Shiny library in R, improving data accessibility for end-users.
• Conducted customer segmentation analyses utilizing clustering techniques, enhancing targeted marketing strategies.

Projects

Django App

Developed a Django application deployed on DigitalOcean, showcasing proficiency in web development and database management.

Bitcoin Trading Series

Engineered an LSTM model for predicting Bitcoin price volatility, refining trading strategies through advanced statistical analysis.

Image DeSegmentation

Created a synthetic dataset for training a UNet model, successfully removing text from images to enhance data quality for analysis.

Education

Bachelor of Science

Bo■aziçi University
Graduation Year: 2012
Relevant Courses: Statistics, Data Mining, Project Management, Quality Assurance Techniques

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, SQL
Machine learning libraries: LightGBM, XGBoost, Scikit-Learn, TensorFlow, PyTorch
Devops tools: Docker, Kubernetes, Airflow

References

Available upon request.