Muhammed Büyükk■nac■

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Professional Summary

Data Scientist with over 6 years of extensive experience in applying data-driven solutions for complex problems in various industries. Proficient in Python with a solid grasp of Machine Learning Engineering, Amazon Web Services, and Data Engineering. Proven ability in collaborating with cross-functional teams to enhance product and service delivery. Demonstrated success in deploying machine learning models and engineering solutions that drive business outcomes; focused on continuous learning and innovation.

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
Tools:
MLFlow, PyTest, RabbitMQ
Technical Skills:
SQL, Linux, Docker, Kubernetes, Airflow, Lean Manufacturing Principles

Professional Experience

Data Scientist

Hepsiemlak –
Dec 2021 - Present
• Utilized machine learning techniques to predict sales and rental prices of real estate, effectively addressing market challenges.
• Conducted thorough analyses to identify undervalued properties, aiding in strategic decision-making processes.
• Engineered a RESTful API to facilitate price predictions based on advanced machine learning models.
• Implemented image regression, segmentation, and classification projects, demonstrating versatility in handling multifaceted data.
• Developed a sophisticated Fraud Detection System for Affiliate Marketing, showcasing analytical and innovative capabilities.
• Employed Apache Spark to compute comprehensive price indexes for various locations, highlighting proficiency in data engineering.

Data Scientist

Urbanstat –
Oct 2019 - Dec 2021
• Devised machine learning-based risk assessments for vehicles and residences to support insurance underwriting processes.
• Achieved a notable reduction in loss ratios, enhancing the operational efficiency of insurance evaluations.
• Predicted wildfire occurrences and hazardous zones using advanced machine learning algorithms, contributing to preventive measures.
• Surpassed state government prediction metrics by incorporating SHAP library for providing interpretable outputs.
• Conducted comprehensive churn analysis for home insurance policies, focusing on customer retention strategies.

Fraud Systems Engineer

Turkcell –
Sep 2018 - Oct 2019
• Participated in a pivotal machine learning project aimed at forecasting customer objections to invoices, enhancing revenue protection.
• Oversaw Fraud and Credit Control services, optimizing existing systems to mitigate financial risks.
• Managed both physical and virtual machines, ensuring smooth deployment and operational continuity.
• Deployed diverse software packages in live environments, leveraging Linux and SQL for system reliability.

Junior Data Scientist

Organon Analytics –
Apr 2018 - Aug 2018
• Designed and developed user-friendly dashboards utilizing Shiny in R for effective data visualization.
• Performed customer segmentation analysis through clustering techniques to identify target market dynamics.

Projects

Django App

Developed a robust Django Application deployed on a DigitalOcean VPS, enhancing user engagement and service delivery.

Bitcoin Trading Series

Constructed an LSTM model to analyze price volatility in Bitcoin trading, generating actionable insights for traders.

Image DeSegmentation

Engineered a simulated dataset by overlaying text on images, training a UNet model to achieve high-quality image restoration.

Education

Bachelor of Science

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

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
Design and manufacturing software: CAD Software Familiarity, Lean Manufacturing Principles

References

Available upon request.