Muhammed Büyükk■nac■

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Professional Summary

Data Scientist with over 6 years of diverse experience in developing AI-centric software solutions and machine learning projects. Proficient in Python and deeply knowledgeable in cloud development, particularly within Amazon Web Services. Skilled in designing and implementing machine learning models, with a focus on leveraging large language models and prompt engineering techniques. Committed to continuous improvement and delivering insights through data-driven approaches in both real estate and insurance sectors.

Skills

Machine Learning:
Python, LightGBM, PyTorch, TensorFlow, Hadoop, FastAPI, Docker
Cloud Services:
AWS, EC2, S3, IAM, VPC, RDS, ECR, EKS, DynamoDB
Data Engineering:
Apache Spark, PostgreSQL, SAP HANA (PAL)
Development:
Flask, Django, SAP Cloud Application Programming (CAP)
Tools:
MLFlow, PyTest, RabbitMQ, LangChain
Technical Skills:
SQL, Linux, Docker, Kubernetes, Airflow

Professional Experience

Data Scientist

Hepsiemlak –
Dec 2021 - Present
• Predicting sales and rental prices of real estate using advanced machine learning techniques, incorporating both structured and unstructured data.
• Developed and maintained a REST API that utilizes machine learning models for real-time pricing predictions.
• Executed comprehensive image data analysis projects involving regression, segmentation, and classification.
• Designed a robust Fraud Detection System for Affiliate Marketing operations.
• Computed location-based price indexes utilizing Apache Spark for enhanced data analytics.

Data Scientist

Urbanstat –
Oct 2019 - Dec 2021

• Developed machine learning-based risk assessment models for automobile and property insurance.
• Achieved a reduction in loss ratios of up to 7% through predictive analytics and refined ML model implementation.
• Predicted wildfire risks and identified hazardous areas in California and the West Coast using sophisticated ML algorithms, surpassing state government predictions.
• Leveraged SHAP library for model interpretability and insights in risk assessment.
• Executed churn analysis focused on property insurance policies, facilitating better customer retention strategies.

Fraud Systems Engineer

Turkcell –
Sep 2018 - Oct 2019
• Contributed to machine learning projects aimed at forecasting customer objections to invoicing.
• Oversaw Fraud & Credit Control services, ensuring compliance and accuracy.
• Managed numerous physical and virtual machines, optimizing resource allocation and performance.
• Regularly deployed software solutions into operational environments, utilizing Linux and SQL for backend support.

Junior Data Scientist

Organon Analytics –
Apr 2018 - Aug 2018
• Designed and implemented insightful dashboards for end users utilizing the Shiny library in R.
• Conducted in-depth customer segmentation analysis through clustering techniques to enhance marketing strategies.

Projects

Django App

Developed a Django application deployed on a DigitalOcean VPS, integrating machine learning for improved functionality.

Bitcoin Trading Series

Engineered an LSTM model to predict price volatility in Bitcoin, deriving actionable trading signals based on 4-hourly data.

Image DeSegmentation

Created a realistic simulated dataset by overlaying text on images; trained a UNet model using TensorFlow for effective text removal.

Education

Bachelor of Science

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

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

References

Available upon request.