Muhammed Büyükk■nac■

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Professional Summary

Results-driven Data Scientist with over 6 years of experience specializing in Python-based Machine Learning, Data Science, and Generative AI. Proven track record in designing, developing, and deploying advanced AI models and algorithms. Strong expertise in Natural Language Processing (NLP), including creating conversational AI systems. Committed to fostering cross-functional collaboration and promoting continuous improvement in machine learning solutions to deliver impactful results.

Skills

Machine Learning:
Python, LightGBM, PyTorch, Hadoop, FastAPI, Docker, Natural Language Processing, Generative AI
Cloud Services:
AWS, GCP, EC2, S3, IAM, VPC, RDS, ECR, EKS, DynamoDB
Data Engineering:
Apache Spark, PostgreSQL
Development:
Flask, Django
Tools:
MLFlow, PyTest, RabbitMQ, LangChain
Technical Skills:
SQL, Linux, Docker, Kubernetes, Airflow

Professional Experience

Data Scientist

Hepsiemlak –
Dec 2021 - Present
• Designed and launched generative AI models to enhance sales and rental price predictions for real estates.
• Implemented Natural Language Processing (NLP) techniques for improved user interactions and insights.
• Developed a REST API for predicting property prices using ML models, enhancing client decision-making.
• Created various machine learning projects including image regression, segmentation, and classification.
• Designed a Fraud Detection System for an Affiliate Marketing initiative using advanced analytics.
• Conducted data analysis to compute price indexes of locations employing Apache Spark.

Data Scientist

Urbanstat –
Oct 2019 - Dec 2021
• Engineered machine learning-driven risk assessment models for automobiles and homes assisting insurance clients.
• Achieved a reduction in loss ratios by up to 7% through predictive analytics.
• Applied machine learning algorithms to predict wildfires and identify high-risk areas in California and the West Coast, outperforming state predictions.
• Utilized SHAP for generating interpretable outputs on complex machine learning models.
• Developed customer churn analysis models for home insurance policies leveraging advanced data insights.

Fraud Systems Engineer

Turkcell –
Sep 2018 - Oct 2019
• Contributed to a machine learning project focused on predicting customer disputes regarding billing.
• Oversaw the monitoring of Fraud & Credit Control systems within Turkcell's framework.
• Managed both physical and virtual machine infrastructures to ensure high availability.
• Deployed various software packages in a live environment, demonstrating proficiency in Linux and SQL.

Junior Data Scientist

Organon Analytics –
Apr 2018 - Aug 2018
• Developed interactive dashboards for end users utilizing the Shiny library in R, enhancing data visualization.
• Conducted customer segmentation analysis through clustering techniques to derive actionable insights.

Projects

Chatbot Development

Designed and implemented a generative AI chatbot leveraging NLP techniques for user engagement.

Django App

Developed a Django Application deployed on a VPS of DigitalOcean to support dynamic data user interfaces.

Bitcoin Trading Series

Engineered an LSTM model to forecast price volatility utilizing 4-hourly Bitcoin data, generating profitable trading signals.

Image DeSegmentation

Created a simulated dataset by overlaying text on images and trained a UNet model to effectively remove text via TensorFlow.

Education

Bachelor of Science

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

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:
Advanced Neural Networks and Deep Learning, Issued:

Technical Proficiencies

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

References

Available upon request.