

Muhammed Büyükkınacı

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Professional Summary

Data Scientist with over 6 years of extensive experience in software development, quality assurance, and machine learning. Proven expertise in Machine Learning Engineering, System Engineering, and Back-End Development, alongside a strong foundation in Data Engineering and Unit Testing. Committed to fostering collaboration among cross-functional teams to enhance product quality and reliability. Enthusiastic about using technology to address significant challenges in education and social equity.

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, API Development

Tools:

MLFlow, PyTest, RabbitMQ, Selenium, Postman

Technical Skills:

SQL, Linux, Kubernetes, Airflow, Continuous Integration/Continuous Deployment (CI/CD)

Professional Experience

Data Scientist

Hepsiemlak –

Dec 2021 - Present

- Developed predictive models for sales and rental prices of real estate, enhancing decision-making processes.
- Implemented algorithms to identify low-priced real estate opportunities, saving costs for the company.
- Engineered a robust REST API to predict real estate prices using machine learning models, improving user engagement.
- Conducted comprehensive projects involving image regression, segmentation, and classification, optimizing image processing workflows.
- Constructed a Fraud Detection System for an Affiliate Marketing project, increasing financial security.
- Calculated price indexes of various locations leveraging Apache Spark to enable data-driven insights.

Data Scientist

Urbanstat –

Oct 2019 - Dec 2021

- Designed machine learning models to create risk scores for automobiles and homes, significantly benefiting insurance risk assessments.
- Achieved a reduction in loss ratios by up to 7% through advanced predictive analytics.
- Predicted wildfire risks and identified high-risk areas in California using machine learning algorithms, surpassing state government predictions.
- Utilized SHAP library for generating interpretable outputs, aiding in stakeholder communication and trust.
- Developed machine learning-based churn analysis techniques for homeowner insurance policies.

Fraud Systems Engineer

Turkcell –

Sep 2018 - Oct 2019

- Participated in a machine learning project to predict customer objections regarding invoices, enhancing customer service.
- Managed Fraud & Credit Control services for Turkcell, identifying and mitigating risks proactively.
- Oversaw several physical and virtual machine environments, ensuring optimal performance.
- Deployed comprehensive software packages in live environments with a strong emphasis on testing and reliability using Linux and SQL.

Junior Data Scientist

Organon Analytics –

Apr 2018 - Aug 2018

- Created and designed interactive dashboards for end-users utilizing the Shiny library in R, enhancing data accessibility.
- Conducted customer segmentation analysis through clustering methods, providing actionable insights for strategic marketing.

Projects

Django App

Developed and deployed a Django application on a DigitalOcean VPS, focusing on scalability and user experience.

Bitcoin Trading Series

Engineered an LSTM model to accurately predict price volatility in Bitcoin for strategic trading decisions.

Image DeSegmentation

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

Education

Bachelor of Science

Boğaziçi University

Graduation Year: 2012

Relevant Courses: Statistics, Data Mining, Time Series Forecasting, Software Testing

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:

Software Testing Fundamentals, Issued:

Technical Proficiencies

Programming languages: Python, Java

Machine learning libraries: LightGBM, XGBoost, Scikit-Learn, TensorFlow, PyTorch

Devops tools: Docker, Kubernetes, Airflow, Selenium, Postman

References

Available upon request.