

Muhammed Büyükkınacı

Email: muhammedbuyukkinaci@gmail.com | Phone: +90 552 219 01 50 | LinkedIn: MuhammedBuyukkinaci | Github: muhammedbuyukkinaci.com | Location: Istanbul-Turkey

Professional Summary

Detail-oriented professional with a strong foundation in data analysis and scientific computing, and over 6 years of experience in predictive modeling and system evaluation. Proven expertise in developing complex models and utilizing computational techniques to derive actionable insights. Adept at collaborating with cross-functional teams to implement best engineering practices, with a keen focus on continuous improvement and robust results delivery.

Skills

Mechanical Engineering:

Finite Element Analysis (FEA), Computational Fluid Dynamics (CFD), Mechanical Design, Stress Analysis, Lifecycle Analysis

Programming and Modeling:

Python, LightGBM, TensorFlow, Hadoop

Data Engineering:

Apache Spark, PostgreSQL

Development:

FastAPI, Django

Cloud Services:

AWS, EC2, S3, IAM, VPC

Technical Skills:

SQL, Linux, Docker, Kubernetes, Airflow, AutoDesk Inventor

Professional Experience

Data Scientist

Hepsiemlak –

Dec 2021 - Present

- Applied advanced machine learning techniques to predict real estate sales and rental prices under varying conditions.
- Conducted detailed analyses to identify real estate investment opportunities, utilizing statistical and computational methodologies.
- Developed and optimized REST APIs for delivering predictive insights, ensuring high performance and reliability.
- Implemented image processing models for regression, segmentation, and classification tasks to enhance data interpretation.
- Created and executed a Fraud Detection System for marketing engagement, improving overall transactional reliability.
- Utilized Apache Spark for dynamic computation of price indexes, analyzing market trends and patterns effectively.

Data Scientist

Urbanstat –

Oct 2019 - Dec 2021

- Developed machine learning models to create risk assessment scores leveraged by insurance companies, resulting in a reduction of loss ratios by up to 7%.
- Utilized predictive analytics to assess wildfire risks in California, surpassing state government forecasts with more precise modeling.
- Executed churn analysis for housing policies using relevant machine learning algorithms to enhance client retention strategies.
- Reported and communicated key findings and models to stakeholders, promoting data-driven decision-making.

Fraud Systems Engineer

Turkcell –

Sep 2018 - Oct 2019

- Engaged in a predictive modeling project to identify customers likely to dispute invoices, improving customer grievance resolution.
- Monitored and enhanced Fraud & Credit Control services, utilizing analytical tools to mitigate risk.
- Oversaw management of both physical and virtual infrastructure to ensure operational continuity and reliability.
- Deployed key software solutions in a live environment, regularly employing Linux and SQL for data management.

Junior Data Scientist

Organon Analytics –

Apr 2018 - Aug 2018

- Designed intuitive dashboards utilizing the Shiny library in R for enhanced user-data interaction.
- Conducted comprehensive customer segmentation analysis through clustering techniques to drive targeted marketing strategies.

Projects

Django App

Developed and deployed a robust Django application on a DigitalOcean VPS, optimizing performance for end-users.

Bitcoin Trading Series

Engineered an advanced LSTM model to predict price volatility on Bitcoin, yielding algorithmic trading signals.

Image DeSegmentation

Created a synthetic dataset to train a UNet model, successfully implementing image de-segmentation to remove text elements.

Education

Bachelor of Science

Boğaziçi University

Graduation Year: 2012

Relevant Courses: Statistics, Data Mining, Time Series Forecasting, Thermodynamics, Fluid Mechanics

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:

AutoCAD and Autodesk Inventor Training, Issued:

Certified in Finite Element Analysis, Issued:

Technical Proficiencies

Programming languages: Python

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

Cad software: AutoDesk Inventor

Devops tools: Docker, Kubernetes, Airflow

References

Available upon request.