Muhammed Büyükk■nac■

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Professional Summary

Innovative Data Scientist with over 6 years of extensive experience in Python and a deep understanding of Generative AI. Proven expertise in designing, developing, and deploying cutting-edge machine learning models and applications. Proficient in utilizing Natural Language Processing (NLP) techniques and frameworks like LangChain, with a track record of building advanced AI solutions including conversational chatbots and predictive analytics. Passionate about driving data-driven decision-making and collaborating with cross-functional teams to bring AI innovations that deliver significant value. Adept at integrating cloud technologies and MLOps practices to enhance operational efficiency.

Skills

Generative AI:
Python, NLP, LangChain, Large Language Models (LLMs), Conversational AI
Machine Learning:
Python, LightGBM, PyTorch, TensorFlow, Apache Spark
Cloud Services:
AWS, GCP, Docker, Kubernetes
Programming:
Python, SQL, Linux

Professional Experience

Data Scientist

Hepsiemlak –
Dec 2021 - Present
• Designed and deployed machine learning models for predicting sales and rental prices of real estate.
• Developed a robust REST API that integrates machine learning models for real-time property price predictions.
• Created advanced image classification and segmentation projects, applying deep learning techniques to extract valuable insights from visual data.
• Spearheaded the development of a Fraud Detection System for Affiliate Marketing, utilizing anomaly detection algorithms.
• Employed Apache Spark for computing price indexes across varying geographical locations, significantly enhancing analytical capabilities.

Data Scientist

Urbanstat –
Oct 2019 - Dec 2021

• Developed machine learning-based risk scoring systems for automobiles and homes, achieving a reduction in loss ratios of up to 7% for insurance providers.
• Implemented predictive models to identify potential wildfire threats and high-risk areas across California and the West Coast using advanced machine learning techniques.
• Conducted comprehensive churn analysis for household insurance policies using machine learning methodologies.
• Utilized SHAP for generating interpretable model outputs, improving the understanding of model predictions for stakeholders.

Fraud Systems Engineer

Turkcell –
Sep 2018 - Oct 2019
• Participated in a critical machine learning project aimed at predicting customer objections to invoices, contributing to improved billing accuracy.
• Managed and monitored Fraud Prevention and Credit Control services, ensuring optimal operation of physical and virtual server environments.
• Successfully deployed software packages in a live environment, maintaining high standards of reliability and performance.

Junior Data Scientist

Organon Analytics –
Apr 2018 - Aug 2018
• Designed user-friendly dashboards for real-time data visualization using the Shiny library in R, enhancing client decision-making.
• Conducted comprehensive customer segmentation analyses employing clustering techniques to identify distinct market segments.

Projects

Generative AI Chatbot

Developed a conversational AI chatbot using LangChain and Python, enhancing user interactions through natural language processing capabilities.

Image DeSegmentation

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

Bitcoin Trading Series

Built an LSTM model to predict price volatility on 4-hourly Bitcoin data, optimizing trading strategies through predictive analytics.

Education

Bachelor of Science

Bo■aziçi University
Graduation Year: 2012
Relevant Courses: Statistics, Data Mining, Time Series Forecasting, Machine Learning, Natural Language Processing

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:
Natural Language Processing Specialization, Issued:

Technical Proficiencies

Machine learning libraries: PyTorch, XGBoost, LightGBM, Scikit-Learn, TensorFlow
Programming skills: AWS, GCP, Airflow, Kubernetes, Microsoft Office, MLOps, Git, Linux, SQL, Docker, Python

References

Available upon request.