Hilal Ilcin

Data Scientist

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Data Scientist with expertise in machine learning, deep learning, and predictive analytics. Experienced in designing and executing data science projects, with a strong focus on forecasting models, NLP, and statistical analysis. Proficient in Python, R, SQL, SAS, and big data technologies such as Apache Spark. Skilled in ETL pipelines, data visualization, and cloud platforms (AWS, Azure, GCP). Adept at translating business challenges into data-driven solutions and collaborating with cross-functional teams to deliver impactful insights.

SKILLS

- Programming: Python (Pandas, NumPy, Scikit-learn, PySpark, TensorFlow, PyTorch), R, SAS, SQL, VBA
- Machine Learning: Supervised & Unsupervised Learning, Deep Learning, NLP, Predictive Modeling, Statistical Analysis
- Big Data & Databases: Apache Spark, Hadoop, MySQL, PostgreSQL, NoSQL, Azure Data Lake
- Data Processing: ETL Pipelines, Data Cleaning, Data Validation, Feature Engineering
- Cloud Platforms: AWS, Azure, GCP
- Data Visualization: Power BI, Tableau, Looker, Matplotlib, Seaborn
- Version Control & Collaboration: Git, GitHub

WORK EXPERIENCE

Machine Learning Turkey | Data Scientist September 2022 – September 2023

- Designed and executed data science projects, leveraging machine learning (Random Forest, XGBoost, LSTM, RNN, GRU) and deep learning techniques to solve real-world problems.
- Developed and optimized ETL pipelines, improving data accuracy, validation, and processing efficiency for analytics solutions.
- Applied predictive modeling and statistical analysis to forecast energy consumption across different sectors.
- Implemented natural language processing (NLP) models for text analysis and automation tasks.
- Collaborated with cross-functional teams to integrate data-driven solutions into business operations.

EDUCATION

Middlesex University London *September 2023 – October 2024*
MSc Data Science

Uludag University *October 2018 – September 2022*
Bsc Mathematics

KEY PROJECTS

Energy Consumption Forecasting (MSc Thesis)

- Forecasted energy consumption in Germany's NUTS2 regions using deep learning (LSTM, RNN, GRU) and machine learning (XGBoost, Random Forest). Designed feature engineering pipelines to enhance model performance and predictive analytics insights to optimize energy efficiency.

Customer Churn Prediction

- Developed classification models (Random Forest, XGBoost, Logistic Regression) to predict churn, optimizing data pipelines for real-time predictions. Presented key findings to stakeholders, improving customer retention strategies.

CERTIFICATES

Python Essential Training | Data Modeling | Python for Data Science Essential Training
Apache Spark Essentials | Data Warehouses, Data Lakes, and the Cloud (LinkedIn Learning)