MEHMET IŞIK

Data Scientist

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SUMMARY

I am Mehmet, a Data Scientist and Analyst specializing in Data Science, Machine Learning, and AWS cloud technologies. My expertise includes analyzing complex data sets and integrating predictive models into business strategies. With a background in Mechanical Engineering and Wastewater Treatment, I've played key roles at the Ceyhan Wastewater Treatment and Biogas Plant. I'm committed to continuous learning and sharing my insights on Medium.

EDUCATION

Istanbul Technical University

Micro MBA, Business and Personal / Financial Services Marketing Operations 2021 - 2022

University of Technology Koszalin

Bachelor's Degree in Mechanical Engineering 2012 - Erasmus

Karabuk University

Bachelor's Degree in Mechanical Engineering 2009 – 2014

TRAINING

- **Data Engineering Bootcamp** - VBO - 2024-2025
- **Data Scientist and Machine Learning Bootcamp** - Miuul 2022-2023
- **AWS Cloud Technical Bootcamp** - Miuul- 2023
- **Data Engineer Path** - Miuul - 2023

SKİLLS

Technical Skills:

- **Data Engineering**: Proficiency in Hadoop ecosystem (HDFS, YARN, MapReduce), Hive, Sqoop, Kafka, Spark, and Trino.
- **Programming & Analysis:** Skilled in Python, SQL, with a strong foundation in machine learning and data analysis, including web scraping.
- **Cloud & Data Management:** Experienced with AWS Cloud, Databricks, Snowflake, and concepts of data warehouse, data lake, and Lakehouse.
- **Operation & Workflow Management:** Knowledgeable in Spark Streaming, Airflow, Change Data Capture, and deploying Spark applications.
- **Advanced Data Technologies:** Familiar with Elasticsearch, Apache Superset, NoSQL databases, SQL window functions, and Infrastructure as Code (Terraform).

Soft Skills:

- Strong organizational and time-management skills.
- Exceptional communication and interpersonal skills.
- Ability to work both independently and as part of a team.
- Detail-oriented with the capability to handle multiple tasks simultaneously.
- Experienced in managing budgets and financial documents.

PROFESSIONAL EXPERIENCE

Data Scientist - Adana ASKI General Directorate - 2023 -Present

As a Data Scientist at Adana ASKİ, I undertake various responsibilities including data collection, processing, and analysis; predictive modeling; and data visualization. In these roles, I aim to significantly contribute to achieving Adana's sustainable management goals, improving decision-making processes, and strengthening strategic planning. These responsibilities are part of my efforts to find innovative solutions to the challenges in our city's water management and to develop more effective systems.

Plant Manager - Adana ASKI General Directorate - 2016 - 2023

As the Plant Manager at Ceyhan Wastewater Treatment and Biogas Plant, I oversee operations and maintenance, focusing on analyzing and utilizing data to enhance daily performance.

Maintenance Specialist - Adana ASKI General Directorate - 2015 - 2023

As the Maintenance Specialist at Ceyhan Wastewater Treatment and Biogas Plant, Mr. Isik handled equipment maintenance, pump repairs, and machinery operation.

Mechanical Engineering Expert - Kipas Paper Industry - 2015

As a Mechanical Engineer, Mr. Isik played a key role in boosting the facility's performance and operations.

Mechanical Engineer - ÇMS Textile - 2014 - 2015

As a Mechanical Engineer, Mr. Isik played a key role in boosting the facility's performance and operations.

PROJECTS

Data Science Project

Classification
1. Customer segmentation with rule-based Classification

CRM Analytics
1. RFM Analysis with E-Commerce Data
2. CLTV Prediction with customer data

Recommendation Systems
1. Armut ARL Recommender
2. Hybrid Recommender System

A\B Testing
1. Rating Product&Sorting Reviews in Amazon
2. AB Testing with e-commerce website

Machine Learning
1. Diabetes prediction with a logistic regression model
2. Real house prediction with advanced decision trees like CART, Random Forest, GBM, XGBoost, etc
3. Customer Segmentation with Unsupervised Learning using K-Means, Hierarchical Clustering, and Principal Component Analysis (PCA) methods
4. Churn Prediction with ML models
5. Airbnb NYC House Price Prediction with ML Models
6. Titanic Survival Prediction with ML Models
7. Baseball Salary Prediction with ML Models
8. Water Quality Prediction with ML Models
9. Data Science Salary Prediction with ML Models
10. U.S. Farm Biogas Production Prediction with ML Models (Dairy Cows and Livestock Farms)
11. Airline Passenger Forecasting (Time Series)
12. Natural Language Processing (NLP)

Data Analysis
1. Global Methane Emissions: Countries & Sectors
2. General Review of Biogas in the U.S. Farms
3. Solar Power Generation Visualization Analysis
4. Analysis of Landfills in America
5. Global Analysis of Renewable Energy Sources: Solar, Wind, Hydroelectric, and Beyond.

AWS Project
1. End-to-End Data Analytics Solution for 24/7 Operating Facilities

Competition
1. Artificial Intelligence-Based Recommendation System for İş Bankası Mobile Application: Personalized Menu Suggestions
2. E-Commerce Forecasting ML-Driven Merchant Trends For Iyzico

Plant Manager
1. Karataş Wastewater Treatment Plant (MBR) Control and Commissioning
2. Saimbeyli Wastewater Treatment Plant Control and Commissioning
3. Ceyhan Wastewater Treatment Plant Control and Commissioning