

ABDULLAH SEZDI

Junior Data Scientist

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EXPERIENCE

Samsung Innovation Campus | Data Science Project 11/2024 – 02/2025
Data-Driven Multi-Agent LLM-Based Q&A System

- Built a **multi-agent LLM system** to analyze **OECD, World Bank, and World Happiness Index** datasets for economic and social insights.
- Designed **specialized LLMChains** for contextual, data-driven responses.
- Integrated **LangChain** for real-time natural language queries and **Streamlit + Plotly** for interactive visualizations.

Co-CRM, Data Mining Intern 09/2024 – 11/2024

- Built scalable web scraping scripts to extract structured data from **25,000+ companies** in multiple languages.
- Used **Regex** for pattern extraction and cleaned data with **SQL & Excel**, ensuring high accuracy.

EDUCATION

Adnan menderes university, Computer Engineering Aydin
GPA: 3.35/4.00

Final Year Project: Movie Recommendation System

- Built a **movie recommendation system** using **MovieLens datasets**, integrating **content-based filtering** and **collaborative filtering** (matrix factorization).
- Developed an interactive **Streamlit interface** for real-time personalized recommendations.

Miuul, Machine Learning Bootcamp

- Completed an **intensive Machine Learning Bootcamp** covering **feature engineering, model selection, and performance optimization**.
- Worked on **supervised (regression, classification)** and **unsupervised (clustering)** models, applying **real-world case studies**.
- Developed **hands-on projects**, implementing **ML pipelines** and **evaluation techniques** for business-driven insights.

PROJECTS

1- Iyzico Transaction Volume Forecasting

- Built a **time series model** using **LightGBM** to accurately predict **daily transaction volumes** for merchant partners.
- Enabled **data-driven financial planning** and **operational efficiency** improvements with **short-term forecasting insights**.

- Applied **advanced feature engineering** (lag features, rolling mean) and optimized model performance through **custom loss functions**.

2- End-to-End Customer Retention Analytics,

Churn Prediction & Customer Segmentation with Machine Learning

- Developed a customer **Churn prediction** and segmentation model using **Machine Learning (XGBoost, LightGBM)**, leveraging behavioral data such as purchase frequency, recency, and spending patterns.
- Implemented **RFM-based customer segmentation** and trained predictive models to identify at-risk customers, enabling proactive retention strategies.
- Deployed the model as an **API via FastAPI**, integrated it with a **Streamlit dashboard**, and provided actionable insights for business decision-making.

3- Sentiment Analysis on Amazon Reviews

Analyzed Amazon customer reviews to classify sentiments as positive or negative.

- Preprocessed textual data using techniques such as **tokenization, stop-word removal, and TF-IDF vectorization** to extract meaningful features.
- Developed **Logistic Regression** and **Random Forest** models, achieving an accuracy of 85%.
- Identified key factors influencing customer satisfaction (e.g., delivery speed, product quality).
- Delivered **data-driven recommendations** that contributed to product development and improved customer relationship strategies.

SKILLS

Programming & Databases: Python (Pandas, NumPy, SciPy, Matplotlib, Seaborn), SQL

Machine Learning & AI: Scikit-Learn, TensorFlow, PyTorch, Keras, OpenCV, NLP (spaCy, NLTK, Transformers), Deep Learning

Experimentation & Statistical Analysis: A/B Testing, Hypothesis Testing

Big Data & Cloud: Apache Spark (PySpark, DataFrames), Hadoop

Data Visualization & BI: Tableau

LANGUAGE

English: B1 Level (Intermediate)

Turkish: Native

CERTIFICATES

• HackerRank SQL Advanced
[🔗](#)

• Miuul Machine Learning
Bootcamp [🔗](#)