

GÜLNUR YILDIZ

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SUMMARY

Industrial Engineering graduate with a strong interest in Data Science, Machine Learning, and Analytics. Skilled in Python, SQL, and predictive modeling, with hands-on experience developing end-to-end machine learning projects from data preprocessing to deployment. Passionate about transforming data into actionable insights and supporting business decision-making through analytical solutions.

EDUCATION

Gazi University, Ankara

B.Sc. Industrial Engineering (100% English) | 2020 – 2025

* Key Coursework: Probability, Statistics, Database Management Systems (SQL), Introduction to Artificial Intelligence, Operations Research,

EXPERIENCE

Strategy Development Intern | Turkish Petroleum Corporation (TPAO)

August 2025

- Conducted data-driven strategic analysis and performance evaluation studies, transforming raw operational metrics into actionable insights for senior management.
- Developed automated Excel/VBA data processing workflows to clean, restructure, and analyze large datasets, reducing manual reporting time.
- Collaborated with cross-functional teams to map key business processes and identify optimization opportunities using statistical analysis. ,

PROJECTS

Telco Customer Churn Prediction & Deployment

- Developed an XGBoost model using 7,000+ customer records to predict customer churn.
- Achieved 84% Recall in identifying customers with high churn risk.
- Performed data preprocessing, feature engineering, and hyperparameter tuning to improve model performance.
- Evaluated model performance using Precision, Recall, and F1-Score metrics.
- Deployed the model as an interactive Streamlit web application for real-time predictions.

Technologies: Python, Pandas, NumPy, Scikit-Learn, XGBoost, Streamlit, Git, GitHub

Project Link: <https://telco-churn-prediction-33kwrrcxmntgr2cjdb6ce.streamlit.app/>

TECHNICAL SKILLS

- Programming & Databases: Python (Pandas, NumPy, Scikit-Learn), Advanced SQL (Window Functions, CTEs, CASE WHEN)
- Machine Learning: Classification, Regression, Ensemble Methods (XGBoost, Random Forest), Feature Engineering, Hyperparameter Tuning
- Deep Learning & AI: PyTorch, Neural Networks, Convolutional Neural Networks (CNNs)
- Model Interpretability & Evaluation: SHAP, LIME, Confusion Matrix Optimization (Precision, Recall, F1-Score)
- Data Visualization & Tools: Plotly, Seaborn, Matplotlib, Git, GitHub, Streamlit, Jupyter Notebook, MS Excel (Advanced)

CERTIFICATIONS

- Machine Learning Specialization – Stanford University & DeepLearning.AI
- Python for Data Science, AI & Development – IBM

LANGUAGES

- Turkish (Native)
- English (Professional Working Proficiency)