AHMET TAHIR KOYLU

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551-268-8092 Website LinkedIn

SUMMARY

Analytical and self-driven data professional with a strong ability to identify problems others miss, design practical solutions, and implement them independently end to end. Skilled in blending business insight with tools like Python, SQL, and Power BI to automate processes, forecast outcomes, and deliver impact across marketing, operations, and finance. Comfortable navigating unfamiliar systems and solving challenges without relying on team resources.

EDUCATION

- **Master of Science in Business Analytics – University of New Haven – New Haven, CT**
- **Majors: Business Analytics, Data Analytics**
- **Master of Science in Finance – International University of Sarajevo – Sarajevo, BiH**
  - Concentration: Evaluation of Banking Sector : Here
- **Bachelor of Art in International Relations – International University of Sarajevo – Sarajevo, BiH**
  - Concentration: Business and Marketing

TECHNICAL SKILLS

- **Data Analysis & Machine Learning:** Python, R, Microsoft Excel, Azure AutoML, Google Cloud Platform (Vertex AI Studio, AutoML, BigQuery ML), TensorFlow (basic)
- **Data Visualization:** Power BI, Tableau, R Shiny, Looker Studio (Google Cloud)
- **Database Management:** SQL, Google BigQuery, Data Warehousing (Star/Snowflake Schemas), OLAP, SSMS, SSRS, SSIS, ETL Processes
- **Other Tools:** Microsoft Office Suit, Google Vertex AI Studio, Google Gemini, Google Big Query, Prompt Engineering

WORK EXPERIENCE

PORT AUTHORITY PROJECT: TRAFFIC ON BRIDGES AND TUNNELS – New Haven, CT
January 2025 – May 2025

- Predicted traffic volume and peak congestion across bridges and tunnels using Time Series Forecasting models built in Azure AutoML, enabling better traffic planning and incident response
- Designed Power BI dashboards to visualize toll violations, peak travel patterns, and the impact of holidays/events on traffic

CORPAY PROJECT: REVENUE GROWTH AND CROSS-SELL STRATEGY ENHANCEMENT – New Haven, CT
January 2024 – May 2024

- Analyzed Corpay's customer data to support strategic cross-sell initiatives by developing an eligibility model for personalized promotional offers
- Designed a relational data model in SQL Server with 20+ entities and processed billions of rows using SQL and SSIS ETL pipelines
- Applied machine learning techniques (e.g., Logistic Regression, Random Forest, K-Means) to uncover customer insights; visualized findings using Power BI and Tableau

BUSINESS ANALYTIC CAPSTONE – New Haven, CT
January 2025 – May 2025

- Built and optimized 12 models (regression, classification, forecasting) using Azure AutoML with customized hyperparameters for maximum predictive accuracy
- Used Google Vertex AI & Gemini for LLM-based prompt engineering, multimodal RAG, and image classification with AutoML Vision

- Managed BigQuery pipelines, engineered features, and deployed models using BigQueryML and Vertex AI Studio

GERMAN CREDIT PREDICTION MODEL– New Haven, CT
August 2025 – December 2025

- Built and compared GLM, Random Forest, and RPart models; created a custom ensemble with voting logic
- Benchmarked against SuperLearner ensemble and visualized accuracy metrics in R

DIVORCE PREDICTION USING DATA MINING TECHNIQUES – New Haven, CT
August 2025 – December 2025

- Predicted divorce risk from survey data using LASSO, One-R, and Fast & Frugal Trees
- Presented results in **a Quarto report with clear explanations and code.**

PHARMA SALES DATA VISUALIZATION AND FORECASTING - New Haven, CT
August 2025 – December 2025

- Cleaned and modeled 6 years of pharmaceutical sales data, building relationships across time-based tables and 30+ drug categories.
- Created 10+ custom DAX measures and interactive dashboards to analyze trends, top-selling products, and monthly

COURSE TRANING MANAGER- KODLAND – Adana, TR
01/23/2021 - 20/07/2023

- Presented trial programming lessons to parents and children, designing exercises to build essential modern skills
- Assessed individual needs and recommended programs in Python, Scratch, and Roblox
- Supported strategic development of programs aligned with educational and industry goals