

Deniz Yagci

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I am a **Data Scientist** with 3+ years of experience in banking and financial services, specializing in machine learning, risk modeling, deep learning, and customer segmentation. My expertise includes building data-driven solutions that enhance decision-making and optimize business strategies. I am passionate about leveraging data science to solve complex business challenges and am always eager to learn and improve. Currently, I am exploring new opportunities in Berlin.

Work Experience

MARCH 2024 – PRESENT

Data Scientist | VakifBank | Istanbul, Turkey

- The 2nd largest bank in Turkey by total assets, 2024.
- Worked in R&D and Innovation Department.
- Designed and implemented data-driven modeling processes tailored to the bank's business needs. Conducted exploratory data analysis (EDA) to uncover insights, identify trends, and support data-driven decision-making.
- Developed and optimized customer segmentation models for Insurance Product, increasing sales conversion from 7.7% to 16.5% and assisted in models for Team & Branch Targeting, Revenue Forecasting, and Credit Risk Assessment.
- Led end-to-end data science projects tailored to banking needs, including deployment. Involved in every stage—from data exploration to model implementation—using tools such as Jupyter Notebook, PyCharm, Git, SQL, MongoDB, and Azure.
- Conducted research on document information extraction and large language model (LLM) projects.

JUNE 2022 – MARCH 2024

Junior Data Scientist | DenizBank | Istanbul, Turkey

- The 9th largest bank in Turkey by total assets, 2024.
- Conducted exploratory data analysis and built predictive models on large datasets to identify trends and patterns, using tools such as VS Code, MS SQL, and SPSS.
- Developed risk-based models, including Decision Trees and Customer Classification models, to improve risk management at DenizBank, targeting SME segments with a 3–5% default rate.
- Led geospatial default risk analysis across Turkey to guide branch optimization and reduce credit losses, while managing SQL-based data pipelines to ensure data accuracy and clarity for executive reporting—such as validating agricultural loan data requested by a European bank.
- Collaborated with various departments such as IT, SME & Agric policy, and validation to ensure effective risk management strategies.

JUNE 2020 – DECEMBER 2021

SAP Consultant | Istanbul, Turkey

NTT Data Business Solutions Turkey

- NTT DATA Business Solutions is a global IT consultancy specializing in SAP solutions and digital transformation services across various industries
- Conducted business and process analysis for 3 different projects across various sectors.
- Provided key user and end user trainings, live support, and prepared process flow diagrams.
- Collaborated with teams at Ferrero, Eczacibasi Karo, and Sun Textile for successful project implementations.

Uyumsoft – ERP PP Consultant

- Uyumsoft is one of Turkey's leading software companies, providing end-to-end digital transformation solutions to over 200,000 clients across more than 15 countries, with a strong focus on innovation and R&D investment.
- Conducted business and process analysis for 3 projects including Marble Manufacturing, EasyCep, and EOSB.
- Prepared detailed reports using Crystal Reports and Microsoft SQL to drive decision-making processes.

Skills

Python & SQL proficiency • Data preprocessing & feature engineering • Machine learning model development • Exploratory data analysis (EDA) • Model deployment • Version control with Git • Cloud platforms (Azure) • Strong analytical thinking • Effective communication • Collaborative & cross-functional teamwork • Time & task management • Data visualization (Power BI, matplotlib, seaborn)

Education

JUNE 2021

Bachelor of Industrial Engineering | Marmara University | Istanbul, Turkey

3.13 GPA • Member of university's Honor Society

Ranked in the top 1.1% among 1.8 million applicants in the Turkish national university entrance exam.

JUNE 2017

Bachelor of Mechatronics, Robotics, and Automation Engineering | Bahcesehir University | Istanbul, Turkey

Drop Out • (100% Scholarship)

Ranked in the top 1.1% among 1.8 million applicants in the Turkish national university entrance exam.