

# Deniz Sağmanlı

Istanbul, TR | +90 541 683 2575 | denizsagmanli@gmail.com

GitHub: github.com/dsagmanli | Website: dsagmanli.github.io

## EXPERIENCE

**Türkiye İş Bankası (İşbank), Data Scientist & System Specialist, Istanbul** November 2024-Present

- Pioneered an Agentic AI solution leveraging LLMs to automate customer authorization checks, reducing manual work by 96% and saving 240 FTE across bank branches.
- Developed predictive Machine/Deep Learning models for banking and financial forecasting.
- Designed and implemented large-scale Generative AI assistant applications to improve workflow efficiency.
- Optimized Machine Learning algorithms for classification tasks, improving model accuracy and performance.

**Lifemote Networks, Customer Success Manager, Istanbul** May 2022-August 2023

- Supervised ISPs within the UK and Greenland.
- Engineered a Data Science and Analytics algorithm to track ISPs' mesh upgrade success rates, reducing unnecessary truck-roll and mesh upgrade costs by 26%.
- Trained end-users and facilitated the onboarding of new customers.
- Amplified product value for 18% of customers by leading and coordinating taskforces.

**n11.com, Data Science Department Intern, Istanbul** June-July 2021

- Programmed a Machine Learning algorithm that predicts the probability of churn of customers with 76% accuracy using their purchase data.

**Liebherr, Mobile Crane Department Intern, Istanbul** June-July 2020

- Replaced the electromagnetic angle sensor of a mobile crane.
- Advocated the error analysis and switch replacement of cranes.

## EDUCATION

**University of Nottingham, School of Science, Nottingham** 2023-2024  
MSc in Computer Science, GPA: Distinction (4.0/4.0)

**Koç University, College of Engineering, Istanbul** 2018-2022  
BSc in Electrical and Electronics Engineering, GPA: 3.2/4.0

**TED Istanbul College, Istanbul** 2014-2018  
GPA: 87.4/100.00, Honor Award of Foreign Languages Department  
Chairperson of School Board as an Independent Candidate

## PROJECTS

**Detection of Dengue Fever Cases Using Machine Learning** 2024

- Forecasted Dengue cases for 2 cities using 3 different ML models.
- Achieved a 4% improvement over the current #1 solution on DrivenData (out of 5600+ competitors).

**Sentiment Analysis of 2020 U.S. Presidential Election Tweets** 2024

- Categorized the sentiment of 2 million tweets, determining the polarity of voters using novel Big Data approaches.

**Autonomous Drone SLAM, Positioning and Real-time Object Detection** 2021-2022

- Developed an Autonomous Flying Drone, with a web-based user interface, Object Detection using Deep Learning with 90% precision, SLAM and 3D Mapping.
- Exhibited at Consumer Electronics Show (CES) 2022 in Las Vegas.
- US Air Force, Department of Defense and a French company wanted to incorporate the project into their operations.

**Smart Home Security System** 2021-2022

- Created a security system that can sense fire, sound and movement using flame, sound, and infrared sensors.
- The system gathered data and sent notifications to mobile phones over Wi-Fi in the event of a fire or burglary.

## LEADERSHIP & AWARDS

**Postgraduate Excellence Award** 2023

- Scholarship awarded to students who are academically outstanding at the University of Nottingham.

<b>Vehbi Koç Scholar Honors Award</b>	2021
<ul style="list-style-type: none"> <li>Awarded to students who are academically outstanding at Koç University.</li> </ul>	
<b>Licensed Basketball Player, Istanbul</b>	2011-2017
<ul style="list-style-type: none"> <li>Played for Darüşşafaka, Okyanus College Sports Club, High School Basketball team.</li> </ul>	
<b>European Youth Parliament Conferences, Turkey</b>	2014-2018
<ul style="list-style-type: none"> <li>Collaborated in 11 EYP Conferences as Chairperson, Journalist, Delegate, Video Editor and Organizer.</li> </ul>	

## SKILLS

**Technical:** Experience in Machine Learning, Data Analysis, Data Visualization, Data Science, Big Data, Generative AI and Agentic AI. Proficient user of Python, SQL, Tensorflow, Keras, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, PySpark, LangChain, Amazon S3, R, MS Office, Docker, Linux, Java, MATLAB, C, C++, Swift, HTML, CSS, PHP, JavaScript, VHDL.

**Languages:** Fluent in English, Turkish. Above-intermediate level German. Beginner level Russian, French.

**Interests:** Scuba diving, Snowboarding