

# GÖKTUĞ ÖCAL

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## EDUCATION

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### BOĞAZIÇI UNIVERSITY

Istanbul

*Candidate for MSc in Computer Engineering*

2021 - 2023 (Expected)

- Relevant Courses: Deep Learning, Testing and Verification Techniques in ML, NLP, Cloud Computing, Operating Systems
- Researched “Robust Time Series Forecasting Models against Adversarial Attacks” and built LSTM-based robust forecasting models. <https://github.com/GoktugOcal/time-series-adversarial-attacks>

### ISTANBUL TECHNICAL UNIVERSITY

Istanbul

*Bachelor of Science in Control and Automation Engineering*

2015 - 2020

- Volunteered at the Artificial Intelligence and Intelligent Systems Laboratory (AI2S) for 2 years. Studied robotics and AI-based time-series forecasting models.
- Assisted and managed a student club called OTOKON. Organized robotics and coding courses and events.

## EXPERIENCE

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### FORD OTOSAN

Istanbul

Lead automotive manufacturer in the region

*Data Scientist*

2022

- Developed a driver evaluation algorithm with Python and PySpark that aims to evaluate truck drivers in a fleet and detect the problematic drivers who need training in a specific behavior in terms of driving.
- Experience as a Scrum Master for a team with diverse roles.
- Worked on CoE team and was responsible for defining development, coding and deployment procedures.

### REENGEN

Istanbul

Provides sustainability and energy management products

*Data Scientist*

2020-2022

- Developed a time series analysis algorithm that detects the saving potentials in energy consumption in non-operating hours of retails and reduced the energy cost by %7 on average.
- Reduced workload of customer teams by %40 by utilizing energy analysis tools by providing data analytics and algorithms with an API interface to the running services of analysis.
- Developed a statistics-based dynamic anomaly detection algorithm that detects anomalies caused by connection faults of IoT devices without using much memory.
- Created a humble procedure for the company for deploying and serving ML models, creating interfaces for running algorithms and creating APIs for triggering algorithms.

*Data Science Assistant (Part-Time)*

2019-2020

- Developed time series forecasting models that forecast energy consumption of retails, banks, and hospitals with a %6 error on average for the next 48 hours in hourly intervals by using LSTM models.

## CERTIFICATION AND SKILLS

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- Python, SQL, Tensorflow, Sklearn, Spark,
- C++, MATLAB, Java, OOP
- Machine Learning, Deep Learning, Time Series Analysis, Statistical Modelling
- Big Data with PySpark, Datacamp, 2022
- SQL Fundamentals, Datacamp, 2022
- Machine Learning, Coursera Stanford University, 2020
- IELTS, 7.0/9.0, 2021

## PERSONAL INFORMATION

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- Deep interest in cinema, communication and graphical design.
- Really enjoy playing team sports, reading about movies and designing visual content.
- Trying to write about my interest on a personal blog. [goktugocal.com](https://goktugocal.com)