

# Anil Ozturk

## Senior Machine Learning Engineer

nlztrk nlztrk nlztrk

## EXPERIENCE

### Senior Machine Learning Engineer

#### Eatron Technologies

June 2022 – Present Istanbul - Turkey

- Developing a pipeline that estimates the remaining time for a battery until the end of useful life.
- Developed a pipeline that can detect specific faults from instant measurements for a well-known battery manufacturer and packaged it as a dockerized environment.

### Machine Learning Engineer

#### Eatron Technologies

June 2021 – June 2022 Istanbul - Turkey

- Developed an autonomous driving RL model that makes use of perception applications.
- Developed a pipeline that analyzes leading indicators to enable diagnosis of battery cell issues months in advance.

### Machine Learning Researcher

#### Eatron Technologies

September 2019 – June 2021 Istanbul - Turkey

- Clustered vehicles using unsupervised learning to extract more precise decision-making insights
- Designed an application-specific object detection network by implementing, customizing and simplifying SOTA variants
- Developed an efficient lane changing algorithm using deep reinforcement learning

### Researcher

#### ITU AI & Data Science Application and Research Center

August 2019 – June 2021 Istanbul - Turkey

- Designed an automated curriculum learning algorithm for optimal training performance
- Generated realistic traffic trajectories using novel GAN approaches

## EDUCATION

### Computer Engineering MSc.

#### Istanbul Technical University

2018 – 2021 3.88 / 4.0

Thesis: Automated Curriculum Design for Reinforcement Learning with Graph Theory and Evaluation Heuristics ([Link](#))

### Mechatronics Engineering BSc.

#### Yildiz Technical University

2014 – 2018 3.05 / 4.0

Thesis: Design and Production of a Haptic Robot Gripper ([Link](#))

## LANGUAGES

Turkish First Language

English Professional Working Proficiency

## SKILLS

Machine Learning Deep Learning  
Deep Reinforcement Learning  
Image Processing Feature Extraction  
Ray Python PyTorch Keras  
Tensorflow sklearn pandas Git

## PUBLICATIONS

### Conference Proceedings

- “Monocular 3D Object Detection by Leveraging Self-Supervised Visual Pre-training” (2021). In: *NeurIPS ML4AD*. [Link](#).
- Ozturk, Anil et al. (2021). “Investigating Value of Curriculum Reinforcement Learning in Autonomous Driving Under Diverse Road and Weather Conditions”. In: *2021 IEEE Intelligent Vehicles Symposium Workshops (IV Workshops)*, pp. 358–363. DOI: 10.1109/IVWorkshops54471.2021.9669203.
- “Development of A Stochastic Traffic Environment with Generative Time-Series Models for Improving Generalization Capabilities of Autonomous Driving Agents” (2020). In: *2020 IEEE Intelligent Vehicles Symposium (IV)*, pp. 1343–1348. DOI: 10.1109/IV47402.2020.9304774.

## PATENTS

Systems and methods for predicting remaining useful life in batteries and assets ([Link](#))

US-11527786-B1

December 2022

## COMPETITIONS

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Predicting benefit from a particular campaign with past transactions ([Link](#))

3rd / 186

📅 Dec 2022

📍 Migros Datathon

Estimating call amount in case of an outage at power networks ([Link](#))

3rd / 72

📅 Sep 2022

📍 GDZ'22 Datathon

Development of a public legislation search engine ([Link](#))

1st

📅 Sep 2022

📍 TeknoFest 2022

Matching point of interest data across datasets ([Link](#))

55th / 1079 (Top 6%)

📅 Jul 2022

📍 Foursquare - Location Matching

Predicting the vehicle malfunction ([Link](#))

1st / 84

📅 Jul 2022

📍 Borusan Datathon

Predicting the demand on increase in payments ([Link](#))

1st / 114

📅 May 2022

📍 Anadolu Hayat Emeklilik Datathon

Estimating wind-power generation using SCADA data ([Link](#))

1st / 128

📅 May 2022

📍 EnerjiSA WindForce Hackathon

Predicting wildfire occurrence in Turkey ([Link](#))

1st / 17

📅 Apr 2022

📍 H2O.ai Wildfire Challenge

Estimating solar-power generation using weather data ([Link](#))

1st / 207

📅 Mar 2022

📍 EnerjiSA Energy Datathon

Predicting sales-file creation status in a given period ([Link](#))

5th / 52

📅 Nov 2021

📍 Doğu Datathon - Doğu Otomotiv

Predicting marital status using monthly expense data ([Link](#))

5th / 117

📅 Feb 2021

📍 İş Bankası MLC #3

Identifying structural damages with image segmentation ([Link](#))

3rd / 36

📅 December 2020

📍 Anadolu Sigorta Datathon

## CERTIFICATIONS

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Applications of AI for Anomaly Detection ([Link](#))

**NVIDIA**

📅 February 2022

Applied Data Science with Python Specialization ([Link](#))

**University of Michigan - Coursera**

📅 August 2020

Deep Learning Specialization ([Link](#))

**deeplearning.ai - Coursera**

📅 March 2019

## TEST SCORES

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YDS (English)

**Foreign Language Exam**

📅 May 2018

★ 85,00

ALES

**Academic Personnel and Postgraduate Education Entrance Exam**

📅 May 2018

★ 89,37