

# EGE DEMIR

Istanbul, Turkey

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## EDUCATION

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### Middle East Technical University, Ankara

2019 - June 2023

Bachelor of Industrial Engineering with a focus on Operations Research

Department of Industrial Engineering

cGPA: 3.52/4.00

For the senior project, developed an algorithm that reached desired target audience exposure levels in order to maximize Life Time Value for mobile apps using minimum budget across online ad marketplaces with bidding mechanisms such as Google, Meta and Tiktok using optimal control theory

### Uskudar American Academy, Istanbul

2014 - 2019

International High School Diploma with Science Math Track

cGPA: 95.3/100

## EXPERIENCE

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### Blush Design

California, USA

Machine Learning Engineer (20 hrs/week)

Sep 2021 - May 2023

- Developed tools to aid artists' in creative endeavours such as:
- A system to write backstories for artwork using large language models, used in bueno.art
- A model to extend the artwork submitted by artists' using their style using Stable Diffusion and finetuning techniques, used in bueno.art
- A real time background removal tool for avatars used in themicroverse.art
- Developed the frontend, backend, ML and cloud components for these tools using Python, PyTorch, React, Typescript and AWS Sagemaker

### Summarify

Istanbul, Turkey

Natural Language Processing Research Engineer (10 hrs/week)

Dec 2020 - Sep 2021

- Developed state of the art Turkish summarization and classification algorithms by finetuning language models such as BERT and mT5.

### Global AI Hub

Istanbul, Turkey

Lecturer (10 hrs/week)

Feb 2020 - Sep 2021

- Prepared courses about deep learning to the Turkish AI community; such as the "Deep Learning Tasting Tour", showcasing the latest developments in DL, and "Natural Language Processing with Deep Learning" focusing on the Transformer; live lectured to thousands of people

## VOLUNTARY WORK

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### Middle East Technical University Artificial Intelligence Society

Ankara, Turkey

Co-founder and President

2020-2023

- Cofounded ODTU YZT, a student society to work on projects such as reproducing papers and learn together by following courses, reading books and papers
- Worked on projects such as a Python timeseries library inspired by Huggingface's libraries, a Turkish large language model, a text clustering model to improve the user experience for a very popular Turkish social media website eksisozluk.com, reproduction of the Attention is All You Need paper and a Google Colab library to allow for realtime feedback in classroom settings
- Designed an introduction to AI course and lectured to hundreds of students over eight weeks

**CodeFest '16 - '17 - '18 - '19**

*Co-founder, Coordinator*

Istanbul, Turkey

*2016-2019*

- Cofounded CodeFest, the first and biggest interhighschool coding festival in Turkey with 300+ annual attendees, managed a budget of 6,000+ USD and a body of 40 students

## SKILLS AND INTERESTS

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<b>Tools</b>	Python, C++, Pytorch, MySQL, Gurobi, Typescript
<b>Languages</b>	Native Turkish, C2 English, B1 German
<b>Interests</b>	Deep Learning, NLP, Generative Art, Operations Research,

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## ACHIEVEMENTS

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First place in Vakavt 2022, most prestigious national business case solving competition in Turkey with over 100 participating teams.

Second place in EnGenius '20 , a data science competition organized by Eczacibasi Ilac where competitors forecasted drug sales and pitched their method

First place in Turkey in Engineering Aptitude, Mathematics and Science Competition organized by Technology Student Association for two years in a row (2017-18). Participated in the finals in USA.

## ADDITIONAL COURSES

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CENG501 - Deep Learning (graduate level), Middle East Technical University

CENG796 - Deep Generative Models (graduate level), Middle East Technical University

Introduction to Artificial Intelligence, 1 year hands on program by Dr. Uzay Cetin in KaVe

Machine Learning, Stanford University (Coursera)