

Karahan Sarıtaş

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EDUCATION

University of Tübingen

M.Sc. in Machine Learning - GPA: -

Tübingen, Germany

Oct 2023 – Jul 2025

Boğaziçi University

B.Sc. in Computer Engineering - GPA: 3.88/4.00

Ranked 3 out of 91 – High Honors

İstanbul, Turkey

Sep 2018 – Jun 2023

Haydarpaşa Anatolia High School

High School Diploma - GPA: 98/100

İstanbul, Turkey

Sep 2014 – Jun 2018

TEACHING/RESEARCH EXPERIENCE

Tübitak

TÜBİTAK STAR Research Intern

İstanbul, Turkey

Jun 2023 – Jul 2023

- In the context of the AKİS: Automatic Transcription of Ottoman Turkish Documents using DL Technologies project, my main focus was on aligning OCR-produced lines with the ground-truth lines. The purpose of this task was to enhance the training performance of the transcription algorithm. To accomplish this, I worked on the application of Dynamic Time Warping with Levenshtein distance.

Boğaziçi University

Undergraduate Teaching Assistant

İstanbul, Turkey

Mar 2021 – Jun 2023

- Spring 2023 - Fundamentals of Software Engineering
- Spring 2022 - Introduction to Object Oriented Programming
- Fall 2021 - Introduction to Computing
- Spring 2021 - Introduction to Computing
- I was involved in a range of responsibilities, encompassing project preparation, creating weekly lab questions, grading student submissions, communicating with students, and recording educational videos

VIP Fen Bilimleri

Teaching Assistant

İstanbul, Turkey

Sep 2018 – Feb 2020

- Individual support of students for their entrance exam, mostly focused on problem-solving sessions

INDUSTRY EXPERIENCE

Trendyol

Associate Developer

İstanbul, Turkey

Jul 2022 – Dec 2022

- Developed and maintained **batch data pipelines** using Apache Spark, Scala, and Alibaba Cloud EMR Service. Worked on the integration of different **monitoring tools** including Datadog, Grafana, New Relic, and Alibaba Cloud Monitoring with various products
- Technology Stack: Scala, Spark, Alibaba Cloud, Terraform, Kubernetes, Kafka, Zeppelin, Hadoop, Hive, Akka HTTP

RDC+

Data Science Intern

İstanbul, Turkey

Aug 2021 – Oct 2021

- Developed **automated web scraping tools** using Selenium and BeautifulSoup in Python
- Technology Stack: Python, Neo4j, BeautifulSoup, Selenium

Turkcell

Unlimited Talent Program Part-time

İstanbul, Turkey

Apr 2021 – May 2021

- Selected as one of the top 10 participants in the **Unlimited Talent Program**, and I had the chance to work part-time at Turkcell

SCHOLARSHIPS & ACHIEVEMENTS

Haydarpaşa Anatolia High School Salutatorian Award: Graduated as the second-highest ranked student in my class

National University Admission Exam (YKS): Ranked 143th in Mathematics and Science among ca. 2 million candidates

National University Admission Exam (Foreign Language): Ranked 99th in Foreign Language (English) among ca. 2 million candidates

KYK Top 100 Government Scholarship: Awarded to undergraduate students who have been ranked in the top 100 on National University Admission Exam by Higher Education Credit and Hostels Institution (KYK)

Trendyol & TOG Education Scholarship: Awarded to top 50 undergraduate students based on university entrance ranking and academic achievement in the university

Bending Spoons Transcend 2022: Selected to be one of the 5 students from Turkey and 25 students from Europe to receive exclusive, one-on-one mentorship from a senior engineer at Bending Spoons.

Boğaziçi University Computer Engineering Third Ranking Award: Graduated as the third-highest ranked student in my class

TEV-DAAD Scholarship: Selected for the Joint Scholarship offered by the German Academic Exchange Service (DAAD) and the Turkish Education Foundation (TEV) for pursuing my master's studies in Germany.

LANGUAGES

Turkish: Native language

English: Advanced (IELTS 8.0 in 2022)

SKILLS

Languages: Python, Java, Scala, C++, SQL

Tools: \LaTeX , Git, MySQL, SQLite, VS Code, Eclipse, Jupyter Notebook, Google Colab, IntelliJ, Alibaba E-MapReduce Service

Frameworks & Libraries: TensorFlow, PyTorch, Django, Django REST Framework, NumPy, Spark

CERTIFICATES & PARTICIPATIONS

inzva

İstanbul, Turkey

Participant

- Algorithm Program 2020-2021
- Algorithm Competition Winter Camp 2022
- Algorithm Program Spring 2022
- Google Developers & inzva Machine Learning Bootcamp Turkey

MOOCs & Professional Certificates

DeepLearning.AI

- Machine Learning
- Deep Learning Specialization
- DeepLearning.AI Tensorflow Developer Specialization
- TensorFlow Professional Developer Certificate

RELEVANT COURSEWORK

Major: Introduction to Computing, Introduction to Object Oriented Programming, Matrix Theory, Discrete Computational Structures, Data Structures and Algorithms, Systems Programming, Analysis of Algorithms, Intro. Probability and Statistics, Principles of Programming Languages, Introduction to Signal Processing for Computer Engineers, Operating Systems, Operations Research, Formal Languages and Automata Theory, Introduction to Database Systems, Development in Software Engineering

Complementary: Introduction to Artificial Intelligence, Complexity Theory, Parallel Processing, Machine Learning, Introduction to Information Retrieval, Artificial Intelligence in Healthcare