

Karahan Sarıtaş

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EDUCATION

University of Tübingen

M.Sc. in Machine Learning - GPA: 1.21/1.00

Tübingen, Germany

Oct 2023 – Jul 2025

Boğaziçi University

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

İstanbul, Turkey

Sep 2018 – Jul 2023

Ranked 3 out of 91 – High Honors

Bachelor's Project: [Word Embedding Repository for Turkish](#)

Haydarpaşa Anatolia High School

High School Diploma - GPA: 98/100

İstanbul, Turkey

Sep 2014 – Jun 2018

TEACHING/RESEARCH EXPERIENCE

Tübitak

Tübitak Star Research Intern

İstanbul, Turkey

Jun 2023 – Jul 2023

- Worked as a Tübitak undergraduate research intern on the “Automatic Transcription of Ottoman Turkish Documents using DL Technologies” project ([AKİS](#)). Improved the transcription algorithm's training effectiveness by aligning OCR-produced lines with ground truth data using Dynamic Time Warping and 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
- Engaged in a diverse array of responsibilities, including project preparation, formulating weekly lab questions, evaluating student submissions, maintaining communication with students, and producing 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. Improved documentation by integrating Swagger and preparing data pipeline diagrams
- 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 and utilized **Selenium** and **BeautifulSoup** within **Python** to automate web scraping processes for collecting user data, including posts and related information. Employed **Neo4j** to construct graphical representations of the gathered data, facilitating comprehensive analysis and visualization of user interactions and content dynamics
- Learned about multiclass sentiment analysis, working on the product reviews using Turkish NLP (Zemberek) tools
- Technology Stack: Python, Neo4j, BeautifulSoup, Selenium

PUBLICATIONS

(Under Review) **Sarıtaş, Karahan** and Oz, Cahid Arda and Güngör, Tunga, “A Comprehensive Analysis of Static Word Embeddings for Turkish”. In: *Expert Systems With Applications* [[Paper](#)] [[Code](#)]

SCHOLARSHIPS & ACHIEVEMENTS

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

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

National University Admission Exam (YKS): Ranked 143rd 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

Tübitak 2247-C Intern Researcher Scholarship: Awarded to undergraduate students who take part in research projects carried out by the Scientific and Technological Research Council of Turkey (TUBITAK)

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

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

LANGUAGES

Turkish: Native language

English: Advanced ([IELTS](#) 8.0 in 2022)

German: Elementary ([did deutsch-institut zertifikat](#) in 2023)

SKILLS

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

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

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

CERTIFICATES & PARTICIPATIONS

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İstanbul, Turkey

Participant

- [Algorithm Program 2020-2021](#)
- [Algorithm Competition Winter Camp 2022](#)
- [Algorithm Program Spring 2022](#)
- [Google Developers & inzva Machine Learning Bootcamp Turkey](#)
- [Applied AI Study Group #7](#)

MOOCs & Professional Certificates

DeepLearning.AI

- [Machine Learning](#)
- [Deep Learning Specialization](#)
- [DeepLearning.AI Tensorflow Developer Specialization](#)
- [TensorFlow Professional Developer Certificate](#)