

Karahan Sarıtaş

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EDUCATION

University of Tübingen <i>M.Sc. in Machine Learning - GPA: 1.17/1.00</i>	Tübingen, Germany <i>Oct 2023 – Jul 2025</i>
Boğaziçi University <i>B.Sc. in Computer Engineering - GPA: 3.88/4.00</i> <i>Ranked 3 out of 91 – High Honors</i> <i>Bachelor's Project: A Comprehensive Analysis of Static Word Embeddings for Turkish</i>	İstanbul, Turkey <i>Sep 2018 – Jul 2023</i>
Haydarpaşa Anatolia High School <i>High School Diploma - GPA: 98/100</i>	İstanbul, Turkey <i>Sep 2014 – Jun 2018</i>

TEACHING/RESEARCH EXPERIENCE

University of Tübingen <i>Teaching Assistant</i> <ul style="list-style-type: none">Served as a practice group leader for the course “Introduction to Machine Learning” (Summer 2024). Supervised an exercise group and evaluated student submissions weekly	Tübingen, Germany <i>May 2024 – Aug 2024</i>
Tübitak <i>Tübitak Star Research Intern</i> <ul style="list-style-type: none">Worked as a Tübitak undergraduate research intern on the “Automatic Transcription of Ottoman Turkish Documents using DL Technologies” project (AKİS). Enhanced the training effectiveness of the transcription algorithm by employing Dynamic Time Warping and Levenshtein distance to align OCR-generated lines with the ground truth data.	İstanbul, Turkey <i>Jun 2023 – Jul 2023</i>
Boğaziçi University <i>Undergraduate Teaching Assistant</i> <ul style="list-style-type: none">Spring 2023 - Fundamentals of Software EngineeringSpring 2022 - Introduction to Object Oriented ProgrammingFall 2021 - Introduction to ComputingSpring 2021 - Introduction to ComputingEngaged in a diverse array of responsibilities, including project preparation, formulating weekly lab questions, evaluating student submissions, maintaining communication with students, and producing educational videos	İstanbul, Turkey <i>Mar 2021 - Jun 2023</i>
VIP Fen Bilimleri <i>Teaching Assistant</i> <ul style="list-style-type: none">Engaged in problem-solving sessions to help students in their preparation for the university entrance exam	İstanbul, Turkey <i>Sep 2018 – Feb 2020</i>

INDUSTRY EXPERIENCE

Trendyol <i>Associate Developer</i> <ul style="list-style-type: none">Developed and maintained batch data pipelines using Apache Spark, Scala, and Alibaba Cloud EMR Service. Worked on integrating different monitoring tools including Datadog, Grafana, New Relic, and Alibaba Cloud Monitoring with various products. Improved documentation by integrating Swagger and preparing data pipeline diagramsTechnology Stack: Scala, Spark, Alibaba Cloud, Terraform, Kubernetes, Kafka, Zeppelin, Hadoop, Hive, Akka HTTP	İstanbul, Turkey <i>Jul 2022 – Dec 2022</i>
RDC+ <i>Data Science Intern</i> <ul style="list-style-type: none">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 dynamicsLearned about multiclass sentiment analysis, working on the product reviews using Turkish NLP (Zemberek) toolsTechnology Stack: Python, Neo4j, BeautifulSoup, Selenium	İstanbul, Turkey <i>Aug 2021 – Oct 2021</i>

PUBLICATIONS

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](#)