

# Karahan Sarıtaş

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## EDUCATION

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### 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

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### Tübitak

*TÜBİTAK STAR Research Intern*

İstanbul, Turkey

*May 2023 – Oct 2023*

- Participated in the *AKİS: Automatic Transcription of Ottoman Turkish Documents using Deep Learning Technologies* project, which aims to develop deep learning-based document segmentation and handwriting recognition technologies for the automatic transcription of Ottoman printed documents and handwritten manuscripts

### Boğaziçi University

*Undergraduate Teaching Assistant*

İstanbul, Turkey

*March 2021 – June 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

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### Trendyol

*Associate Developer*

İstanbul, Turkey

*July 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

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

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

**National University Admission Exam (Foreign Language):** Ranked 99<sup>th</sup> 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

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**Turkish:** Native language

**English:** Advanced (IELTS 8.0 in 2022)

## SKILLS

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

**Tools:** L<sup>A</sup>T<sub>E</sub>X, 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

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**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

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**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