# Mert Koçak

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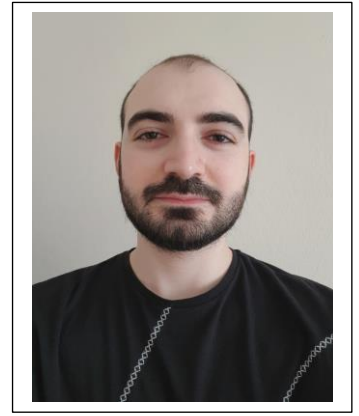
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## EDUCATION

**Ondokuz Mayıs University**      February 2024 - Now      ●Samsun, Turkey
Master's Degree, Data Science (Online)

**Aksaray University**      September 2018 - June 2022      ● Aksaray, Turkey
Bachelor's degree, Management Information Systems

**Altınkaya Anatolian High School**      September 2013 - June 2017      ● Samsun, Turkey

## EXPERIENCE

✦ **Data Science & Machine Learning Bootcamp**      **September 2023 – January 2024**
▪ I worked on and successfully completed in-depth studies, case studies and more than 10+ real-life projects. For my final project, I worked end-to-end on Spotify data and predicted the popularity rate of a new song.
▪This 200 hours long Bootcamp was organized by Miuul. This Bootcamp included practices on Python Programming for Data Science, CRM Analytics, Measurement Problems, Recommendation Systems, Feature Engineering. Machine Learning and Querying MS SQL.

✦ **Bilişim School – Python Tutor(Freelance)**      **December 2023 - Now**

✦ **Bilişim School – Python Tutor**      **August 2023 - December 2023**
▪I have taught Python language and basic programming to students. I have guided students at different levels from beginner to advanced.
▪By emphasizing practical applications while learning Python, I helped students develop skills to solve real-world problems. I encouraged students to develop projects by adopting a project-based learning approach.
▪I taught students debugging skills in Python code and strategies to make their code more efficient. I used Python's debugging tools and profiling techniques.
▪I have participated and contributed to open source Python projects to support my own development and contribute to the Python community.

✦ **GlobalAIHub × Akbank Python Bootcamp**      **February 2023 - March 2023**
▪ Thanks to Python Bootcamp, I gained basic python knowledge and basic machine learning knowledge.
▪ During the bootcamp, we developed many activities and projects with our mentors.
▪ Finally, I successfully completed the bootcamp by making the "pizza ordering system" project.

## COURSES

✦ **Google Cloud Data Analyst Boostcamp**                    **July 2023 - August 2023**

▪ I discovered the power of the Google Cloud infrastructure and explored big data and machine learning products.

▪By examining the middle and top layers, I gained an understanding of the Google Cloud infrastructure.

▪I learned methods for data streaming using Pub/Sub and Dataflow.

▪I visualized data using Looker and Looker Studio after processing it.

▪I analyzed data using BigQuery, utilizing existing data and my SQL skills.

▪With BigQuery ML, I developed my own machine learning models.

▪I experimented with various methods for creating and deploying machine learning models.

✦ **MIUUL Machine Learning Summercamp**                    **July 2023 - August 2023**

▪Skills in handling, cleaning and pre-processing large data sets; handling missing data, preparing data for data analysis and modeling using feature engineering and dimension reduction techniques.

▪Practical experience in applying advanced machine learning algorithms (e.g., decision trees, random forests, gradient boosting machines, deep learning) to real-world data sets. Use of hyperparameter tuning and cross-validation techniques to improve model performance.

## SKILLS

- **Language:** Turkish, English (intermediate level), German (beginner level)
- **Technical:**
  **Computer Programs:** Microsoft Office Applications (very good), Adobe Photoshop (intermediate).
  **Programming Languages:** Python (very good), R (intermediate), C++ (beginner)
  **Database:** MsSQL
  **Libraries:** Numpy, Pandas, Seaborn, SciPy, Plotly, OpenCV, scikit-learn, matplotlib
  **Framework:** TensorFlow, Streamlit
- **Soft:** Strong Human Relations, Responsible, Team-oriented, Creative, Researcher, Open to Learning New Technologies, Quickly Adapting to Current Projects

## PROJECTS

**\*** Please check my github and kaggle accounts for more machine learning and data science projects.

✦ **Spotify Song Popularity Predictor**

▪In this machine learning prediction model, we can calculate how popular a newly uploaded song on Spotify is likely to be.

▪This project aims to predict the popularity levels of newly uploaded songs on Spotify using data analysis performed on songs by artists who have entered the Spotify Top 50 list in the last 3 years and a CatBoost model.

✦ **Car Price Predictor**

▪ This is a car price prediction project using machine learning and linear regression.

✦ **Traffic Monitoring and Speed Radar System**

▪ In this project, opencv and numpy is used in detail to detect vehicles and their speeds, then records the speed of vehicles passing on the road and takes photos of vehicles that do not comply with the speed limit.

✦ **Aksaray University - Image processing based game development with Python**
▪ In this project, I developed a game using artificial intelligence based algorithms. Unity game engine and image processing library were used in the project.

✦ **Coursera × University of California - Dataset Profiling and Analyzing**
▪ In the project, I worked on the Yelp dataset during the course completion phase. I profiled, analyzed and visualized the dataset.

## CERTIFICATES

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|---|---|
| • Certificate of Achievement for Data Science and Machine Learning | 2024 |
| • Machine Learning, *Miuul* | 2023 |
| • Feature Engineering, *Miuul* | 2023 |
| • Measurement Problems, *Miuul* | 2023 |
| • Recommendation Systems, *Miuul* | 2023 |
| • CRM Analytics, *Miuul* | 2023 |
| • Google Cloud Data Analyst Boostcamp, *IDSA* | 2023 |
| • Machine Learning Summer Camp, *Miuul* | 2023 |
| • GlobalAIHub × Akbank Python Bootcamp, Akbank | 2023 |
| • SQL for Data Science, *Californaia University* | 2023 |
| • Introduction to Data Science and Artificial Intelligence | 2022 |
| • Python Programming for Data Science | 2022 |
| • Data Science and Machine Learning with Python | 2022 |
| • Strategic Human Resources Management | 2022 |
| • Competency Based Interview Techniques | 2022 |

## ABOUT ME - CAREER GOAL

During my university education, I explored various programming languages and took part in numerous projects. After graduation, my interest turned towards Python, data science, machine learning and artificial intelligence. This journey led me to take various trainings in these fields and take part in effective projects. During my trainings and projects, I had the opportunity to meet a wide network. I am actively doing projects and participating in competitions in python, machine learning and data science.As an effective, disciplined, dedicated and teamwork-loving person, I want to create added value and improve myself while working.

## HOBİES

- Astronomy
- Photography
- Drawing
- Conducting Research
- Playing Computer Games