

Ali Kağan Mart

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SUMMARY

Data professional experienced in developing end-to-end analytical workflows — from data collection and preprocessing to visualization and reporting. Skilled in Python, SQL, and data visualization, with a growing focus on data science practices such as feature engineering, model evaluation, and predictive analytics to enhance analytical depth and automation.

EXPERIENCE

TEMSA Skoda

JAN 2025 – SEP 2025

Software Engineer (Data-Focused)

- Designed and developed a Python-based mobile telemetry application that collects vehicle data via BLE, performs real-time preprocessing, and visualizes key metrics — improving live data delivery speed by 17%.
- Implemented robust parsing and normalization layers to clean and organize multi-sensor data streams, reducing preprocessing errors by 9%.
- Built interactive chart components and NoSQL-based logging modules to enhance monitoring accuracy and supported faster insight generation across embedded and cloud systems.

Asisguard Defense

JUL 2023 – SEP 2023

Software Engineering Intern

- Designed efficient data pipelines for embedded surveillance systems, improving sensor data throughput by 5%.
- Built Python tools to parse, log, and validate microcontroller outputs under real-time constraints.
- Analyzed collected sensor data to identify latency bottlenecks and proposed improvements that enhanced system performance in subsequent software iterations.

Cukurova Electromobile Team

SEP 2019 – DEC 2022

Data Visualization Engineer

- Developed real-time Python-Qt dashboards visualizing ECU sensor data via the CAN bus, improving insight generation speed by 31%.
- Implemented structured logging scripts for performance tracking and offline analysis during test drives.
- Contributed to telemetry tools that helped the team achieve 2nd place at TEKNOFEST Turkey and 5th place at Shell Eco-Marathon Europe.

SKILLS

Programming & Scripting:	Python (Pandas, NumPy), SQL (MySQL, PostgreSQL), R, Bash
Data Analysis & Visualization:	Power BI, Seaborn, Matplotlib, Jupyter Notebook, Streamlit, Excel
Machine Learning & Modeling:	Scikit-learn, Regression, Clustering, Cross-validation, Model Evaluation & Tuning
Cloud & DevOps Tools:	Git, FastAPI, Docker, AWS

EDUCATION

Çukurova University

Adana, Turkey

BSc in Electrical and Electronics Engineering (100% English)

Sep 2019 - Jun 2025

- Relevant Coursework: Computer Programming, Probability & Statistics, Numerical Methods, Signals and Systems
- Senior Thesis: Embedded System with Data Processing Architecture - designed a Python-based real-time system that collects and analyzes sensor data on embedded hardware

Bialystok University of Technology

Bialystok, Poland

BSc in Electrical and Electronics Engineering (100% English)

Sep 2021 - Mar 2022

- Erasmus+ Exchange Semester
- Relevant Coursework: Computer Programming, Digital Systems, Algorithmic Computation

LANGUAGES

- Turkish: Native Proficiency
- English: Full Professional Proficiency · IELTS Academic 7.5 · CEFR C1
- German: Basic Conversational Proficiency · GER A2

CERTIFICATES

Data Scientist's Toolbox Certificate, Johns Hopkins University

2025

Introductory course on the principles and tools of data science, focusing on R, Git, and data analysis workflows.

UX Design Certificate, Google

2023

7-course professional program covering user research, wireframing, high-fidelity prototyping, and usability testing for digital products.

Introduction to Computer Science (CS50 – Accelerated Program), Stanford University / Koç University

2018

A 6-week intensive course taught by faculty members from Stanford University's Department of Computer Science, covering programming fundamentals, algorithms, and computational thinking.

REFERENCES

References available upon request