

# 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

Software Engineer (*Data-Focused*)

JAN 2025 – SEP 2025

- 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

Software Engineering Intern

JUL 2023 – SEP 2023

- 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

Sep 2019 - Jun 2025

BSc in Electrical and Electronics Engineering (100% English)

- 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

Sep 2021 - Mar 2022

BSc in Electrical and Electronics Engineering (100% English)

- 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