Ali Kagan Mart

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SUMMARY

Combining analytical thinking with a solid technical background, I design data-driven solutions that connect business goals with practical implementation. Experienced in Python, SQL, and end-to-end data workflows, with expertise developing and evaluating models, engineering features, and automating processes to enhance system performance.

EXPERIENCE

TEMSA Skoda Jan 2025 - Sep 2025

Software Engineer (Data-Focused)

- Designed and developed a Python-based Android telemetry app that collects real-time vehicle data over BLE, performs on-device preprocessing and cleaning, and visualizes key metrics - improved live data delivery speed by 17%.
- Built interactive real-time charts and NoSQL logging system that made monitoring easier and reduced time to access historical data by 37%.
- Explored simple statistical relationships in the data (e.g., temperature vs. battery voltage drop) and shared findings with the team - results used during performance review meetings.

Asisguard Defense Technologies Jul 2023 - Sep 2023

Software Engineering Intern (Data Science & Embedded Analytics)

- Designed and implemented Python-based data pipelines to collect, clean, and structure real-time sensor data from embedded surveillance systems, improving stable data throughput by 5%.
- Performed exploratory data analysis (EDA) on time-series sensor logs using Pandas and Matplotlib to identify latency patterns and recurring error conditions.
- Built simple regression models (Linear Regression & Decision Trees) in scikit-learn to understand relationships between environmental factors (temperature, load) and latency - results used to support optimization decisions in the next release.

Cukurova Electromobile Team Sep 2019 - Dec 2022

Data Visualization Engineer

- Designed and built interactive dashboards in Power BI and Python to visualize ECU sensor data collected via the CAN bus, enabling real-time performance monitoring and improving decision-making efficiency by 21%.
- Developed structured logging and ETL scripts in Python to preprocess and organize telemetry data for visualization and trend analysis.
- Contributed to the telemetry analytics system that supported the team's success - 2nd place at TEKNOFEST Turkey and 5th place at Shell Eco-Marathon Europe.

SKILLS

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

EDUCATION

Cukurova University Adana, Turkey

BSc in Electrical and Electronics Engineering (100% English) Sep 2019 - Jun 2025

- Relevant Coursework: Computer Programming, Probability and 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 Visualization Fundamentals, Microsoft 2025

Comprehensive course on data-driven insight generation and advanced visualization techniques for analytical modeling.

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.

Introduction to Computer Science (CS50 - Accelerated Program), Stanford University / Koc 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