

ALI RIZA ERCAN

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EDUCATION

KTO Karatay University

B.Sc. in Computer Engineering (GPA: 3.77/4.00)

Politechnika Bydgoska im. Jana i Jędrzeja Śniadeckich

Erasmus Exchange Student in Computer Science (GPA: 3.96/4.00)

Yapay Zeka ve Teknoloji Akademisi

Data Science Scholar

Konya, Türkiye

Sept 2020 – June 2025

Bydgoszcz, Poland

Oct 2022 – Mar 2023

Türkiye (Online)

Jan 2025 – Present

EXPERIENCE

HAVELSAN

Data Scientist Intern

Ankara, Türkiye

July 2024 – August 2024

- Conducted comprehensive research on Turkish Named Entity Recognition (NER) models, advancing language processing capabilities through in-depth analysis and evaluation of state-of-the-art NLP techniques.
- Developed and deployed a FAST API microservice for text preprocessing, improving data quality and usability in machine learning pipelines.
- Applied advanced data visualization and processing techniques to analyze model performance, delivering actionable insights.

KTO Karatay University Technology Transfer Office

Assistant Student

Konya, Türkiye

December 2023 – June 2024

- Managed data entry, analysis, and reporting for patents and research projects, ensuring data integrity and supporting strategic decision-making.

MetalMaker 3D

Software Developer Intern

Kraków, Poland

July 2023 - October 2023

- Developed user interfaces with Python GTK on Raspberry Pi, improving user interaction and system functionality.
- Collaborated with design teams to implement front-end updates using Figma and 'glade', enhancing user experience and design accuracy.
- Refactored React web application code, improved maintainability, and optimized database tasks in Supabase for better data integrity and access.

ORGANIZATIONS

GDSC (Google Developer Students Clubs) KTO

Technology Core Team Lead

Konya, Türkiye

March 2024 – July 2024

- Led technology initiatives, organizing workshops on data science, AI, and Google Cloud Platform to foster continuous learning.

Technology Core Team Member

September 2023 – March 2024

- Conducted software development training sessions, equipping students with essential industry skills.

WaterMelon Team

Team Member

Konya, Turkey

November 2022 – Present

- Specialized in data processing and AI to drive innovative solutions in transportation, and other sectors, enhancing operational efficiency and decision-making.
- Secured **2nd place** in **TEKNOFEST 2024 Smart Transportation** with "No One Waits," showcasing expertise in real-time data analysis and machine learning.
- Achieved 4th place in **TEKNOFEST 2023** with "No Standing Passengers," demonstrating proficiency in predictive modeling and data visualization.

ACADEMIC JOURNALS

Comparative Evaluation of Deep Learning and Shadow Learning Classification Algorithms on Medical Datasets

Under Review

- Paper currently under review for publication in a peer-reviewed academic journal.

PROJECTS

Salifort Motors HR Attrition Analysis

<https://kaggle.com/code/alirizaercan/salifort-motors-google-capstone-project>

- Achieved 97.8% accuracy with Random Forest model to predict employee turnover, identifying key retention factors for HR decision-making
- Designed targeted HR interventions reducing attrition costs by implementing workload balancing and career advancement frameworks

Store Sales Forecasting with Time Series & Machine Learning

<https://kaggle.com/code/alirizaercan/store-sales-time-series-data-science-technique>

- Built Python-based forecasting model predicting sales across 54 Favorita stores by analyzing economic indicators and market events
- Optimized LightGBM model achieving 0.47251 RMSLE score to enhance inventory planning across multiple product categories

15MinGreenCity-Besiktas-IBB

<https://github.com/alirizaercan/15MinGreenCity-Besiktas-IBB>

- Led geospatial analysis using Python libraries to transform urban planning through data-driven sustainable mobility solutions
- Created visualization tools adopted by Istanbul Metropolitan Municipality to improve citizen access to essential services

eCommerce Website: GreenCat

https://github.com/alirizaercan/eCommerce_Website_Greencat

- Engineered full-stack e-commerce platform integrating Python, Flask, ReactJS and PostgreSQL with analytics capabilities
- Implemented dashboard reporting system delivering actionable insights on sales patterns and customer behavior

PassoAssist

<https://github.com/alirizaercan/PassoAssist>

- Developed NLP-powered customer service solution using BERT for sentiment analysis and ML classification of user complaints
- Automated data collection from Sikayetvar using Python web scraping tools, improving feedback resolution through a Flask interface

No One Waits

<https://beklemesinkimse.com>

- Won 2nd place at TEKNOFEST 2024 with real-time transportation occupancy prediction system using computer vision algorithms
- Deployed Firebase-integrated solution providing users with accessible occupancy data across web and mobile platforms

CERTIFICATES

- Google Advanced Data Analytics Certificate

SKILLS

- **Programming and Software Languages:** Python, C, JavaScript, CSS
- **Data Analysis and Machine Learning:** NumPy, Pandas, scikit-learn, TensorFlow, SciPy, Statsmodels, Keras, Torch, Hugging Face, Vertex AI
- **Data Visualization and Business Intelligence:** Matplotlib, Seaborn, Tableau, Looker Studio
- **Software Frameworks and Libraries:** ReactJS, NodeJS, GTK
- **Databases and Cloud Services:** PostgreSQL, MsSQL, Supabase, Firebase, BigQuery, Google Cloud
- **Operating Systems and Software:** Linux, Windows, Git, Trello, Visual Studio Code
- **Data Collection and Web Scraping:** Selenium, BeautifulSoup
- **Hardware and Embedded Systems:** Raspberry Pi, Arduino

LANGUAGES

- **English:** B2 Level
- **Turkish:** Native

REFERENCES

- Available upon request.