ALI RIZA ERCAN

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EDUCATION

KTO Karatay University   Konya, Türkiye
B.Sc. in Computer Engineering (GPA: 3.77/4.00)   Sept 2020 – June 2025
Politechnika Bydgoska im. Jana i Jędrzeja Śniadeckich   Bydgoszcz, Poland
Erasmus Exchange Student in Computer Science (GPA: 3.96/4.00)   Oct 2022 – Mar 2023
Yapay Zeka ve Teknoloji Akademisi   Türkiye (Online)
Data Science Scholar   Jan 2025 – Present

EXPERIENCE

HAVELSAN   Ankara, Türkiye
Data Scientist Intern   July 2024 – August 2024

- Researched and optimized Turkish Named Entity Recognition (NER) models, enhancing NLP capabilities and language processing accuracy.
- 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   Konya, Türkiye
Assistant Student   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   Kraków, Poland
Software Developer Intern   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   Konya, Türkiye
Technology Core Team Lead   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   Konya, Turkey
Team Member   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

eCommerce Website: GreenCat
https://github.com/alirizaercan/eCommerce_Website_Greencat

- Developed an e-commerce platform using Python, Flask, ReactJS, and PostgreSQL, analyzing user and product data for insights on sales trends and customer behavior.
- Integrated interactive dashboards and automated reporting to enhance user experience and support data-driven decision-making.

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

- Developed an AI-driven chatbot using BERT-based sentiment analysis and various machine learning models to categorize user complaints, improving feedback resolution.
- Collected and preprocessed data from *Sikayetvar* with Selenium and BeautifulSoup, integrating models into a Flask-based interface for real-time feedback.

No One Waits
https://beklemesinkimse.com

- Secured 2nd place in the TEKNOFEST 2024 Smart Transportation Competition by developing an AI-driven solution using SSD and YOLOv8 algorithms for real-time occupancy prediction in public transportation.
- Implemented data transfer to web and mobile platforms via Firebase, providing users with accessible, real-time occupancy information to optimize vehicle selection.

Santander - Data Science: Details and Explanation
https://www.kaggle.com/code/alirizaercan/santander-data-science-details-and-explanation

- Applied regression and machine learning algorithms to predict customer behavior through the full data science life cycle.

Titanic - Data Science Explained and Details
https://www.kaggle.com/code/alirizaercan/titanic-data-science-explained-and-details

- Predicted Titanic passenger survival outcomes using advanced data preprocessing, EDA, and machine learning techniques.

Spam Filtering: Data Science with Details
https://www.kaggle.com/code/alirizaercan/spam-filtering-data-science-with-details

- Developed a spam classification model covering the entire data science workflow for email prediction.

Transfermarkt Süper Lig - Konyaspor Analysis
https://github.com/alirizaercan/Transfermarkt_Super_League-Konyaspor_Analysis

- Conducted an in-depth analysis of Konyaspor's team performance using Python libraries and advanced data visualization techniques to provide actionable insights in the Super League.

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, 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.**