



# Yusuf Erdem

📍 Ankara, Turkey

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## SUMMARY

I'm a curious and driven Computer Engineering student at Ankara Yıldırım Beyazıt University, with a broad interest in technology and a passion for learning. I've twice participated in the Work and Travel program, spending a total of eight months living and working in the United States. During this time, I thrived in diverse, multicultural environments connecting with people from all over the world and gaining valuable insights into different cultures and ways of thinking. These experiences enhanced my adaptability, communication skills, and global perspective. I'm also a certified voice actor and a language enthusiast, always looking for ways to combine creativity with technical problem-solving. I enjoy stepping out of my comfort zone, exploring new ideas, and contributing meaningfully to innovative teams.

## EDUCATION

Computer Engineering Bachelor's Degree

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## PROJECTS

### Integrated Health Risk Model & Hospital Referral Simulation (Graduation Project - In Progress)

- Project Status: System architecture and foundational disease models are complete. Currently developing the simulation and integration layer, with planned completion by the end of the year.
- System Architecture: Designed a two-layer machine learning architecture covering hypertension, stroke, and diabetes.
  - Layer 1 (Classification): Developed a multi-class classification model to identify the patient's primary disease predisposition.
  - Layer 2 (Risk Analysis): Built specific models to calculate a unique risk score for each disease.
- Application (Simulation): Developing a simulation environment that uses the calculated risk scores as input for the optimal allocation of hospital resources, guiding patients to the most suitable healthcare facility.
- Technical Depth: Solved the imbalanced data problem in the models using 'SMOTE' (oversampling) techniques and applied comprehensive feature engineering.
- Technologies: Python, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn

### UDHAM Idea Contest Project (Most Economical Project Award)

- Won Honorable Mention and a ₺50,000 prize at the "Reaching and Accessible Turkey 2053" R&D Idea Competition by UDHAM (Ministry of Transport and Infrastructure, Türkiye).
- Project focused on congestion pricing and low-emission zone management to reduce traffic and carbon emissions.

### Foundational Machine Learning Projects (Self-Study)

- Classical Machine Learning: Practiced Exploratory Data Analysis (EDA), data visualization, and foundational classification algorithms (Scikit-learn) using Kaggle (e.g., Titanic, Heart Disease) and Udemy datasets.
- Deep Learning: Developed a multi-class image classification model (e.g., Dog Breed Classifier) using the TensorFlow library.

## EXPERIENCE

### Data Science Intern, Acun Medya Akademi January 2025-March 2025, Remote

- Participated in data science projects focused on the analysis and interpretation of large datasets, gaining practical experience in the field.
- Extracted actionable insights by utilizing tools and programming languages such as Python, SQL, and data visualization libraries.
- Applied machine learning techniques, data preprocessing, and statistical analysis methods to support real-world applications.

### Software Developer, Belsis (Post-Internship) September 2023-April 2024, Ankara

- Engineered and enhanced the company's management program by developing software within the Odoo ERP system using Python, customizing and extending ERP functionalities to optimize business operations.
- Managed and optimized relational databases using tools like PostgreSQL, pgAdmin, and DBeaver, ensuring seamless data integration and accessibility for ERP workflows.
- Streamlined system improvements and team collaboration by leveraging tools like Jira and GitLab for project tracking and implementing effective version control practices with Git commands.

### Software Developer Intern, Belsis June 2023-September 2023, Ankara

- Designed and developed a parcel selection program on a map using OpenLayers, contributing to a GIS demo project adopted by numerous municipalities in Turkey.
- Architected and implemented the backend with C#.NET and SQL, enabling efficient database operations and seamless parcel selection processes.
- Developed and optimized the frontend using Node.js, JavaScript, HTML, and CSS, delivering a responsive and user-friendly interface.

## CERTIFICATIONS

### Complete A.I. & Machine Learning, Data Science Bootcamp (Udemy, 2025)

## SKILLS

- Programming Languages: Python, SQL, C#, JavaScript, HTML, CSS
- Data Science & Analysis: Machine Learning (TensorFlow, Scikit-learn), Data Analysis (Pandas, NumPy), Visualization (Matplotlib), Data Mining
- Software & Database: Object-Oriented Programming, Full-Stack Development (C#.NET, OpenLayers, Node.js), ERP Customization (Odoo), Database Management (PostgreSQL, pgAdmin)
- Tools & Platforms: Git, GitLab, Jira

## LANGUAGES

- Turkish: Native
- English: C1 (Full Proficiency)