

# AYŞE CEREN ŞENEL

## COMPUTER ENGINEER

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### CONTACT

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### EDUCATION

#### Meram Anatolian High School

September 2018 – June 2022

- GPA: 96.69 / 100

#### Ankara University – Computer Engineering

September 2023 – Present

- Highlighted Courses: Software Development, Data Structures, Machine Learning, Web Development
- Projects: <https://cerens-blog.lovestoblog.com>
- GPA: 2.91 / 4.00

### RESUME

As a Computer Engineering student at Ankara University, I have a strong foundation in software development with Python, C, Java, and SQL. Throughout my education, I have gained comprehensive theoretical and practical experience in core computer science topics such as data structures, algorithms, machine learning, web development, and software architecture. I have also completed hands-on projects in areas such as database design.

I support my focus on code quality, modularity, reliability, and performance with strong teamwork, project management, and problem-solving skills. I closely follow new technologies and actively apply modern software development practices (version control, clean code, test-driven approaches, etc.). As a proactive and solution-oriented engineering candidate with an analytical mindset, I adapt quickly to technical processes and complete projects in a goal-oriented manner.

Through my roles as Secretary and Organization & Prime Team Lead at the HSD Community, I have gained strong experience in communication, documentation, event planning, team coordination, and leadership. I collaborated with various teams to support both internal and external operations, facilitated the adaptation of new members, and ensured efficient task distribution.

My career goal is to deepen my expertise in software development, machine learning, and web technologies while contributing to innovative projects. As someone committed to continuous learning, I am open to opportunities that support both my academic and professional growth.

### TECHNICAL SKILLS

- |  |  |  |                                  |                                |                                   |
|--|--|--|----------------------------------|--------------------------------|-----------------------------------|
| • Software Development: Python, Java, C, SQL | • Web Development: HTML, CSS, JavaScript | • Machine Learning and Artificial Intelligence | • Data Structures and Algorithms | • Database Design and Querying | • Git/GitHub, Clean Code, Testing |
|--|--|--|----------------------------------|--------------------------------|-----------------------------------|

### PERSONAL SKILLS

- |  |                                   |   |                      |            |
|--|-----------------------------------|---|----------------------|------------|
| • Taking Responsibility and Process Monitoring | • Communication and Documentation | • Problem Solving and Analytical Thinking | • Project Management | • Teamwork |
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## **VOLUNTEER PROJECTS**

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### **Uçak Software – Software Development Intern**

**Jan 2026 – Feb 2026**

- Designed and developed a two-version machine learning–based decision support system operating on Financial and Human Resources datasets. Built a Flask-based web application integrating Excel file upload, automated feature extraction, model selection, and PDF report generation workflows. Implemented Linear Regression and Logistic Regression algorithms, achieving 91% classification accuracy.
- Enhanced system flexibility by developing a dynamic column detection and automated model selection mechanism adaptable to varying dataset schemas. Integrated an LLM-based AI module (Ollama3) to automatically interpret model outputs and generate structured reports based on user prompts. Developed a comprehensive data preprocessing pipeline including missing value (NaN) handling, standardization, data validation, and error control to improve system robustness.
- Utilized Joblib for model persistence and ReportLab for automated PDF report generation. Designed a modular backend architecture to improve maintainability, reusability, and scalability.
- Technologies: Python, Flask, Pandas, Scikit-learn, HTML, CSS, JavaScript, ReportLab, Joblib, LLM Integration (Ollama3)

### **AI-Powered Blood Test Analysis and Training Assistant (TÜBİTAK 2209-A) – Project Owner and Lead Researcher**

**September 2025 – Present**

- I analyzed Turkish laboratory reports and developed an AI prototype that provides users with clear and understandable explanations.
- I used Natural Language Processing (Zemberek, TurkishBERT) and machine learning techniques (Random Forest, Decision Tree).
- I designed a dual-mode educational interface that offers instructional content for medical students and simplified test interpretations for general users.
- With the prototype I developed using Python and Streamlit, I achieved over 85% accuracy and high interpretability, aiming to improve health literacy.
- Application/Project No: 1919B012512296
- Project Advisor: Dr. Feyza Toktaş

### **HSD Ankara – Secretary**

**September 2025 – Present**

- I serve as the Secretary of the HSD Ankara community. I supported internal and external communication by preparing event and announcement texts and ensured the accuracy and up-to-date status of documentation. I contributed to the adaptation of new members to community processes, strengthening team dynamics. I also ensured that official documents were prepared accurately and on time, contributing to order and transparency within community management.

### **HSD Ankara – Organization & Prime Team Lead**

**March 2025 – November 2025**

- As the Organization and Prime Team Lead of HSD Ankara, the Ankara University branch of Huawei Student Developers (HSD), a community active in many universities, I was responsible for planning, coordinating, and organizing community events. I led the Prime team, optimized task distribution, increased efficiency in events, and strengthened communication within the team. I ensured that new members adapted quickly to community processes.
- During this period, I organized various trainings, seminars, and events that supported members in improving their technical skills while also increasing community visibility across the university. I gained experience in teamwork, event management, and project coordination.

## **OTHER INFORMATION**

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- English: B2
- German: A2
- ALES (07.06.2025): 92.8
- YDS (16.11.2025): 73.75

## **REFERENCES**

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- **Dr. Feyza Toktaş**
  - Position: Project Advisor, Ankara University, Department of Computer Engineering
  - Contact: Available Upon Request
- **Assoc. Prof. Yılmaz Ar**
  - Position: Vice Dean, Ankara University, Faculty of Engineering
  - Contact: Available Upon Request
- **Cahit Demirtaş**
  - Position: HSD Ankara Campus Ambassador
  - Contact: Available Upon Request

## **TRAININGS AND CERTIFICATIONS**

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- **Complete Ethical Hacking Bootcamp | Udemy**
  - Duration: 28.5 Hours | Certificate No: UC-1aa9aba3-fd7e-4cca-89cc-a91ab86ee733 | Date: December 2025
- **Machine Learning | BTK Academy**
  - Approved by the Information and Communication Technologies Authority | Certificate No: qKrhe4vqB2 | Date: December 2025
- **Introduction to Deep Learning | BTK Academy**
  - Approved by the Information and Communication Technologies Authority | Certificate No: eK1h0aBleY | Date: December 2025
- **Natural Language Processing | BTK Academy**
  - Approved by the Information and Communication Technologies Authority | Certificate No: 9XrtzL8DMn | Date: December 2025
- **Network Fundamentals | BTK Academy**
  - Approved by the Information and Communication Technologies Authority | Certificate No: xr4tNZmBx0 | Date: December 2025
- **Algorithm 101 Training | Ankara University Computer Society**
  - Certificate No: DC-B2bzXE62 | Date: October 2023