



ZEYNEP BÖLÜKBAŞI

PERSONAL INFORMATION

Adress: Altındağ / ANKARA
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E-mail: zeynep.bolukbasi00@gmail.com
Nationality: Turkish
Birth date/place: July 4, 2000 / Ankara, Turkey
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GitHub: <https://github.com/bookwormzn>

EDUCATION

University:	2021-2025	TED University (%100 English), Ankara, Turkey Bachelor's Degree, Software Engineering Department GPA: 3,09
	2023-2025	TED University (%100 English), Ankara, Turkey Secondary Field, Applied Data Analytics

PROFESSIONAL EXPERIENCE

Company Name: BOTAŞ

Position: Cyber Security Intern

From-To: July 2023 – August 2023

Job Description:

- Gained network and cyber security knowledge.
- Learned how to perform Log Analysis.
- Familiarity with exploitation tools has been gained.

Company Name: TÜBİTAK 2247-C STAR

Position: Research Intern

From-To: March 2024 – August 2024

Job Description:

- The project name is "Intelligent Cyber Security Solutions for Smart Grids".
- Within the scope of the project, artificial intelligence models and explainable artificial intelligence methods used in the field of IDS were researched in detail in the literature.
- Machine learning models have been applied on IDS datasets and various studies have been done in this field by applying explainable artificial intelligence (XAI) methods to machine learning models.

Company Name: DATATEAM

Position: Software Engineer Intern

From-To: July 2024 – August 2024

Job Description:

- Full-Stack Development
- Project related to HTML, CSS, JS, Vue.js, Node.js are being carried out.

Company Name: FREELANCE**Position:** Software Engineer**From-To:** April 2025 – May 2025**Job Type:** Remote**Job Description:**

- Worked on a finance-focused software project involving AI-based analysis.
- Applied unsupervised learning techniques to perform clustering and pattern discovery in financial datasets.
- Conducted exploratory data analysis (EDA) to uncover insights and support decision-making.
- Developed Python-based modules for data preprocessing and model experimentation.

LANGUAGE SKILLS

- Turkish – Native Language
- English – Proficient in English

SKILLS

TECHNICAL SKILLS	PERSONAL SKILLS
<ul style="list-style-type: none">• Java, C, Python, Julia• HTML, CSS, JavaScript, Vue.js, Node.js• Jupyter Notebook• Junit, Mockito, Selenium• Git/Github• Object-Oriented Programming• SQL & Database Management• Microsoft Office• Parallel Programming	<ul style="list-style-type: none">• Problem-solving• Critical thinking• Creativity• Interpersonal skills

EXTRACURRICULAR ACTIVITIES

- **12 Mentorship Program:** Within the scope of the "12 Mentoring Campaign", I mentored an earthquake-affected student who was preparing for university during the university exam process.
- **Freshmen Students Mentorship Program:** I am currently volunteering as a mentor in which I guide and support freshmen students in their first year in their transition to our university.
- **CyberTEDU Board Member:** I provide cyber security mentoring to a group of students at my university and write blog posts about cyber security.
- Practicing **traditional Turkish folk dance** as a hobbyist for over a year, actively participating in weekly rehearsals and performances.

AWARDS & ACHIEVEMENTS

- **2nd Place – Huawei ICT Competition European Regional Final**
Cloud Category, Europe – March 2025
Secured qualification to the Global Finals in China.
- **2nd Place – Huawei ICT Competition Global Final**
Cloud Category, Shenzhen, China – May 2025
Represented TED University on the global stage among teams from 40+ countries.

CERTIFICATIONS

- **Software Engineering Courses (Coursera / 2023):** earned 3 certificates for completing the "Modeling Software Systems using UML", "Implementation and Testing", "Software Design and Project Management" courses on Coursera.
- **Advanced Cyber Threat Intelligence and Threat Hunting (BTK / 2023):** Completed a 36-hour, in-person course at the BTK building, focusing on advanced techniques and strategies for identifying, analyzing, and mitigating cyber threats. Topics covered included threat intelligence frameworks, hunting methodologies, and practical exercises in a controlled environment.
- **IBM SkillsBuild Cybersecurity Programme (IBM / 2023):** Completed a comprehensive cybersecurity program offered by IBM, gaining in-depth knowledge of various cybersecurity domains and practical skills through hands-on projects. This program provided extensive training in identifying, analyzing, and mitigating cybersecurity threats, culminating in practical applications of learned techniques.
- **Machine Learning Courses (Coursera / 2024):** earned 2 certificates for completing the "Supervised Machine Learning: Regression" and "Supervised Machine Learning: Classification".

PUBLICATIONS & CONFERENCES

- Zeynep Bölükbaşı, Zeynep Yiğit, Yılmaz Atay, Prof. Dr. Şeref Sağıroğlu. *"Explainable Artificial Intelligence Models for Intrusion Detection Systems"*. Under review at *Peer-to-Peer Networking and Applications (Springer Nature)*, 2025.
- Zeynep Bolukbasi, Hilal Yurtoglu, Asst. Prof. Emin Kugu, Asst. Prof. Haydar Cukurtepe, *"Insurance Fraud Detection Using Machine Learning and XAI Algorithms"*, 2025 IEEE Region 4 Electro/Information Technology Conference (EIT 2025), Presented at Valparaiso University, USA.

REFERENCES

<p>Prof. Dr. Şeref Sağıroğlu:</p> <p>Director of Gazi AI Center - Gazi University; Head of GU Eng. Fac. Computer Engineering Department; Head of IPv6Forum Türkiye Email: ss@gazi.edu.tr Phone: +905321340707</p>	<p>Dr. Elif Kurtaran Özbudak:</p> <p>Assistant Professor at TED University Email: elif.ozbudak@tedu.edu.tr</p>
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