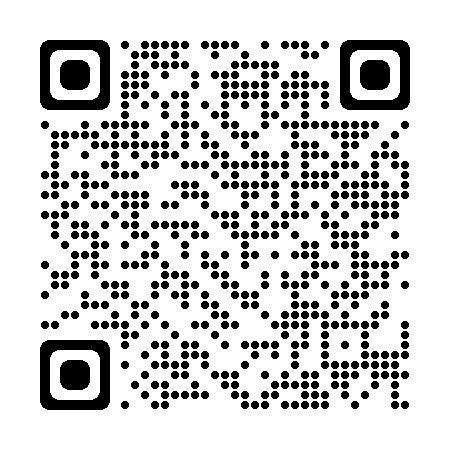
** ASLI BEYZA ÇİFTPINAR (Ash) (she/her)** asliciftpinar@uludag.edu.tr

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**Research Assistant**

**I want to utilise my abilities and education to create projects that leave a better world for future generations and use resources more efficiently.**

**WORK EXPERIENCE**

**Uludağ University,** Bursa/Turkey **Feb 2024 - Present**

Research and Teaching Assistant in Operations Research

* Assisted courses in the 2023-2024/2024-2025 Spring Term:
  + Basic Statistical Methods: Taught the MATLAB applications of hypothesis tests, confidence intervals, and regression. Also, I graded the assignments for these MATLAB applications.
    - During the 2024-2025 Academic Year, I reviewed a total of 723 homework assignments.
  + Production Planning & Control II: I helped with the lecturer’s laboratory lessons.
  + Operations Research II (2024-2025 only): Remade all 10 laboratory applications and teached them.
* Assisted courses in the 2024-2025/2025-2026 Fall Term:
  + Production Planning & Control I: I assisted the lecturer with their laboratory lessons, teaching and answering students’ questions.
  + Probability with Applications: I solved example questions for students, taught the MATLAB applications of boxplot graphs and graded an assignment on this topic.
  + Programming: I teach several Python examples every week to approximately 100 students.
* I am also a member of the department’s Graduation Commission, which oversees the graduation processes of students in the department, and the Course Schedule Commission, which prepares the course schedule for each semester by consulting with teachers in the department and lecturers from various departments at the university.

**Biltay Technology,** Eskişehir/Turkey **Jun 2022 - Aug 2023**

Intern/Business Analyst - BI Expert

* Reactivating the BI module of the company’s software by fixing all 135 dashboards in the company’s system using DevExpress Dashboard in 5 months
  + Some dashboard examples can be found at:<https://drive.google.com/drive/folders/1s3QaDGyvmPAmZeBRruit3TSswLG8AsKM?usp=sharing>
* Creating dashboards that give valuable/general information or the current situation of factories/companies
* Creating reports with data using Crystal Reports
* Cleaning and correcting data using Excel and database manipulation
* Taking customers’ requests/complaints and distributing these to teammates according to their skills/departments
* Improving VBA Macro writing skills by creating a page showing maintenance data information (average failure time, etc.)

**ACADEMIC PUBLICATIONS AND PROJECTS**

**TÜBİTAK 1505 University – Industry Collaboration Support Program: TEYDEB-BTC Mar 2025 - Present**

* A project on creating a PLM software which will work in different areas
* As a paid scholarship student in the project, I conducted the main literature search and am now creating the machine learning model for the project.

**Failure Prediction Using Ensemble Learning: A Comparative Study with Synthetic and Real-World Datasets**

**(**[**https://doi.org/10.35414/akufemubid.1571811**](https://doi.org/10.35414/akufemubid.1571811)**) Jul 2022, Aug 2025**

* My bachelor’s thesis; focuses on developing ensemble-based machine learning models for predictive maintenance.
  + We analysed the predictive maintenance datasets, cleaned them, and observed machine learning algorithms' performances on those datasets. Then, we created ensemble-based ML models and tested these models with these datasets.
  + The performance of one algorithm-only model was between 80-90%. At the same time, it's increased to at least 90% in ensemble-based ML models we've created.
  + This thesis was presented at the 5th International Conference on Sustainable Science and Technology (ICSuSaT-2022) on 3 July 2022, and released as an academic article in Afyon Kocatepe University Journal of Sciences and Engineering in August 2025. Both can be accessed from ResearchGate (see the QR Code)
* It got accepted by TÜBİTAK 2209-A Research Project Support Programme for Undergraduate Students on its 2021/2 period and Eskisehir Technical University’s Turkey Scientific Research Projects Committee as a project.

**TÜBİTAK 4006 Science Fairs Support Programme**  **Sep 2014 - Jun 2015**

* In my first year in high school, I did a TÜBİTAK 4006 team project investigating which materials and combinations best filter dirty water, and presented the project in the school’s Science Fair in June 2015.

**EDUCATION**

**Uludağ University,** Bursa/Turkey  **Feb 2024 - Present**

Master’s Degree in Industrial Engineering (3.14 / 4)

* Took production methods control, machine learning, constraint programming, and manufacturing systems modelling courses.
* My master’s thesis focuses on creating a Generative AI and RAG-based chatbot to help students’ questions about student affairs.

**Eskişehir Technical University,** Eskişehir/Turkey  **Sep 2023 - Feb 2024**

Master’s Degree in Industrial Engineering (30% English)

* Improved myself in metaheuristic algorithms, supply chain management, basics of operations research, and multi-criteria decision-making.
* My studies here were transferred to Uludağ University because I started working there as a Research Assistant.

**Virtual International Programme at JLU Giessen** ,Germany **Oct 2024 - Mar 2025**

* An online program that allows JLU’s partner universities (like Uludağ University) students to take courses from JLU free of charge
* I took Introduction to Sustainability (completed with a grade of 14/15) and German A1.2+ courses.

**Anadolu University,** Eskişehir/Turkey  **Sep 2018 - Jan 2024**

Business Administration (Open University) (2.87 / 4)

**Eskişehir Technical University,** Eskişehir/Turkey  **Sep 2018 - Aug 2022**

Bachelor of Science (BS) in Industrial Engineering (30% English) with Honor Degree (3.04 / 4)

* Learned data science and production, also participating in many volunteer work (see Volunteer Work)
* My bachelor’s thesis focused on developing ensemble-based machine learning models for predictive maintenance and is released as an academic article in 2025.
* MÜDEK accredits this Bachelor's Degree.

**Eskişehir Anatolian High School,** Eskişehir/Turkey  **Sep 2014 - Jun 2018**

* In my first year, I did a TÜBİTAK 4006 team project investigating which materials and combinations best filter dirty water.
* I learned photography fundamentals during my Photography Club membership from September 2014 to June 2015.
* I was a part of the team that rearranged the school's new library in the Library Club from September 2016 to June 2018.

**TRAINING PROGRAMS**

**6th Oxford Machine Learning (OxML) Summer School** , Oxford/United Kingdom **Aug 2025**

* A summer school about recent developments in different areas, giving the opportunity to meet your peers and prominent researchers from academia and industry.
* I joined two programmes of it: Health & Bio and Representation Learning & GenAI.

**Yetkin Gençler (YetGen) in MEF University**  **Sep 2022 - Dec 2022**

* A 14-week 21st-century competencies training program. It includes training on effective presentation techniques, teamwork, career planning, modelling with Excel, information/media/finance/health literacy, social innovation, and an ideathon process.

**VOLUNTEER WORK**

**BUMKAD Sirius Project Apr 2023 – Aug 2023**

Mentor

* The project was about university students and fresh graduates mentoring high school students. I mentored a high school student, answering the student’s questions about university life and anything else the student wondered.

**Sustainable Magazine Jul 2021 – Apr 2022**

Volunteer Interpreter

* A monthly magazine by a volunteer team, including recent news on sustainability and interviews with people who make sustainable products in different areas (clothing, personal care, etc.)
* I translated the magazine from Turkish to English from the 8th to the 14th (last) issue.
* All issues can be found at <https://linktr.ee/thetimesustainability>

**BUMKAD Young Mimosas Project Apr 2021 - Dec 2021**

Core Team Member

* The goal was for women engineering students and recent alumni to learn Agile Project Management before graduation. I was involved in the project organisation as a Core Team member.

**IEEE ESTU Student Branch Sep 2019 – May 2021**

Several Positions

* I participated in WIE AG’s STAR Project in Autumn 2019: University students go to middle/high schools to explain engineering with applications of engineering.
* Between November 2020 and May 2021, I worked as the amanuensis of the WIE group, also taking part in organizing some seminars and courses.

**SKILLS**

**Languages:** Turkish (Native), English (C1; TOEFL Score: 94/120), Japanese (A2), German (A2)

**Specialties:** MS Word (Advanced), MS Excel (Intermediate), MS Powerpoint (Advanced),Python (OOP, Pandas, Sci-kit Learn, Selenium, Gradio), SQL (Intermediate), Power BI (Intermediate), HTML/CSS (Beginner), Crystal Reports (Advanced), MATLAB (Statistics and Machine Learning Toolbox)