

Ahmet Taha Albayrak

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EDUCATION

Bilkent University

B.Sc. in Computer Engineering; CGPA: 3.32/4.00
Honor Student

Ankara, Turkey

Sep 2013 – Jun 2018

Enderun Science High School

High School Diploma; CGPA: 96.91/100

Konya, Turkey

Sep 2009 – Jun 2013

WORK EXPERIENCE

InterLabs Advanced Technologies

Artificial Intelligence Researcher

Ankara, Turkey

Nov 2021 – Current

- Initiated cutting-edge research projects, conducted extensive literature reviews, analyzed complex datasets, and provided supervision in the context of deep learning and computer vision.
- Focused on developing machine learning algorithms for real-time applications, gaining experience in high-performance computing and data streaming technologies.
- Developed strong understanding of machine learning, distributed computing, and real-time processing technologies.
- Conducted extensive data analysis and preprocessing to optimize model performance, and leverage techniques such as deep learning to achieve high accuracy and speed.
- Organized and facilitated a machine learning and computer vision workshop within the organization. Took responsibility for planning logistics, developing a comprehensive agenda and an outline. Managed participant registrations and coordinated necessary resources and equipment. Ensured smooth facilitation of the workshop, maintaining a positive learning environment and addressing participant queries.

TUBITAK Space Technologies Research Institute

Researcher

Ankara, Turkey

Oct 2018 – Nov 2021

- Implementing semantic search capabilities for images, video, and sound, as well as improving the indexing process to make it faster and more compact.
- Helped to develop a system for the internet for relevant queries and supporting multimodal user queries.
- Explored the use of distributed volunteer computing to enhance our system's capabilities and published a paper.
- Worked on developing machine learning algorithms, gaining experience with Python and popular libraries such as Scikit-learn and PyTorch, MXNet.
- Utilized Docker to containerize and deploy services, simplifying the deployment process and improving scalability.
- Worked with a team of developers to design, implement, and test microservices, ensuring seamless integration and efficient communication between services.

AWARDS & ACHIEVEMENTS

Bilkent University 2017-2018 Senior Project Data Science Award

National University Admission Exam (YKS): Ranked 753th in Mathematics and Science among ca. 1.8 million candidates

Enderun Science High School Salutatorian Award: Graduated as the highest ranked student in my class.

PUBLICATIONS

A.T. Albayrak, İ. Atıl, "Hyper Parameter Optimization for Deep Learning using Volunteer Computing" ,6th High Performance Computing Conference, Oct. 8-9, 2020.

SKILLS

Programming: C, C++, Java, Python, MATLAB, SQL,

Technologies: Git, Arduino, Simulink, Xilinx ISE

Languages: Turkish (Native), English (Professional)