

# Ahmet Taha Albayrak

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## EDUCATION

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### Middle East Technical University

*M.Sc. in Computer Engineering; CGPA: 3.36/4.00*  
*Honor Student*

Ankara, Turkey  
*Sep 2019 – Feb 2024 (Expected)*

- **Relevant coursework:** Neurocomputers and Deep Learning, Deep Generative Models, Machine Learning by Probabilistic Models, Estimation Theory, Theory of Remote Image Formation, Machine Vision

### 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

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### InterLabs Advanced Technologies

*Artificial Intelligence Researcher*

Ankara, Turkey  
*Nov 2021 – Current*

- Focused on developing machine learning algorithms for real-time applications, gaining experience in high-performance computing and data streaming technologies
- Develop strong understanding of machine learning, distributed computing, and real-time processing technologies
- Conduct extensive data analysis and preprocessing to optimize model performance, and leverage techniques such as deep learning to achieve high accuracy and speed.
- Develop strong understanding of machine learning, distributed computing, and real-time processing technologies

### 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

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**National University Admission Exam (YKS):** Ranked 753<sup>th</sup> 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

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

## SKILLS

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

**Technologies:** Git, Arduino, Simulink, Xilinx ISE

**Languages:** Turkish (Native), English (Professional)