

ONAT DOGAN AKCA

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EDUCATION

University of Illinois at Urbana-Champaign	Champaign, IL
BS in Computer Science , with a focus of Big Data and AI	Aug 2019 - May 2023
Bilkent University International School	Ankara, TR
International Baccalaureate (IB)	Sept 2015 - May 2019
METU	Ankara, TR
Introduction to Python	Apr 2018 - May 2018

WORK EXPERIENCE

Cybersoft	Ankara, TR
Intern – Android Software Developer	June 2021 – Aug 2021
<ul style="list-style-type: none">Developed and implemented a dynamic Android application utilizing Spotify APIs for seamless integration with the Spotify music streaming platform.Designed and implemented a robust speech-to-text functionality within the Android app, allowing users to search for songs using voice commands.	
OpenProcessing.org	New York, NY
Intern – Software Developer	June 2022 – Aug 2022
<ul style="list-style-type: none">Authored comprehensive p5.js tutorials focusing on the development of multiplayer .io games, providing step-by-step instructions and examples to guide learners in creating engaging and interactive experiences.Developed a recommendation system using Python and relevant math libraries to provide personalized recommendations for a user base of 100,000, enhancing user engagement and satisfaction.	

RESEARCH

University of Illinois-Chicago	Chicago, IL
Research Assistant	May 2022 - Aug 2022
<ul style="list-style-type: none">Developed and implemented neural network models using libraries such as TensorFlow and Keras, leveraging deep learning techniques to analyze crash survivor data and extract valuable insights.Applied Python programming skills to clean and preprocess raw data, ensuring its suitability for neural network analysis in both projects	
METU	Ankara, TR
Research Assistant	Oct 2023 - Current
<ul style="list-style-type: none">Employed nnUNetv2 and Deeplabv3 for advanced eyelid gland segmentation, optimizing algorithms and fine-tuning model parameters to enhance image analysis accuracy and efficiency.Attained impressive DICE scores of 0.84 for gland segmentation and 0.92 for eyelid segmentation, significantly surpassing benchmark standards and contributing to the project's overall success.	

ACTIVITIES

Turkish Student Association UIUC	Champaign, IL
Membership Director	Aug 2019 - May 2023
<ul style="list-style-type: none">Exhibited excellent teamwork and communication skills, working collaboratively with colleagues, volunteers, and external partners to create a memorable and meaningful event that celebrated Turkish Independence Day.Actively participated in fundraising events, such as charity drives, online crowdfunding campaigns, and collaborate with other schools to generate financial support in response to the major earthquake in Turkey.	

SKILLS

- Python (NumPy, SciKit, Pandas), C++, Java, C, p5js, Unreal Engine, Git
- Statistical Analysis and Data Visualization
- Machine Learning, TensorFlow, PyTorch, Data Preprocessing
- Model Deployment in GCP
- Database Systems, SQL
- Object Oriented Programming, Algorithms and Data Structures
- Interests: Soccer, travelling, sport and fitness