



BEYTULLAH YAYLA

ARTIFICIAL INTELLIGENCE ENGINEER

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SUMMARY

I am passionate about solving complex problems and leveraging the power of technology across various fields, including computer vision, image processing, natural language processing (NLP), generative AI, and backend development. I am recognized as a proactive and adaptable team player who excels in collaborative environments. I possess strong problem-solving skills, keen attention to detail, and a commitment to continuous learning. I am proficient in Python, TensorFlow, Scikit-Learn, PyTorch, OpenCV, and other key technologies. I have hands-on experience in object detection, image segmentation, object tracking, backend development, and object classification. My determination to stay at the forefront of technological advancements drives my eagerness to explore new domains and continuously enhance my skills to ensure project success.

WORK EXPERIENCE

Computer Networks Intern ROKETSAN | Jun 2024 - Jul 2024

- Developed a Python script to collect, report, and visualize network device information for administrators.
- Implemented network topology using switches and routers, completing their configurations.
- Tested tasks in simulation environments before real-world deployment.

Artificial Intelligence Project Assistant KOÇTAŞ | Sep 2023 - Jun 2024

- Researched shelf detection, product label and price reading, and shelf gap analysis for a warehouse robot.
- Used Edge TPU hardware accelerators for computer vision projects and executed compatible models.
- Developed algorithms for object detection, classification, and tracking. Created database dashboards with Grafana for data visualization.
- Explored computer vision architectures, transformers, RNNs, generative AI, stable diffusion, and large language models.

Deep Learning Intern/Lead Data Annotator FORD OTOSAN | Jul 2021 - Sep 2023

- Collaborated with engineers at Ford Otosan on a Level 4 autonomous truck project. Developed segmentation model to detect drivable areas and lane markings on Turkish highways.
- Built an object detection and classification model for identifying highway traffic signs.
- Achieved a 0.98 IOU score in segmentation using transfer learning.
- Labeled data for segmentation, classification, object detection, and point clouds, creating large, high-quality datasets.
- Reviewed labeled images and prepared reports on team success rates, total labeled images, and sprint issues.

EDUCATION

Sakarya University Sep 2024 - Present

- Computer Engineering / Master Education
- Major in Data Science and Artificial Intelligence.

Sakarya University Jul 2020 - Aug 2024

- Computer Engineering / Bechelors Degree
- GPA:** 3.34/4.00
 - Honors:** High Honor Honnor Student (2020-2021 Fall Semester), High Honor Student(2023-2024 Fall Semester), High Honor Student(2023-2024 Spring Semester)
 - End of Engineering Project:** Real-Time Customer Counting with Deep Learning Techniques

SKILLS

- Proficient in** Python, SQL, FastAPI, Docker, OpenCV, Sklearn , TensorFlow, PyTorch, PostgreSQL, MySQL, Git, and GitHub.
- Experienced with** Java (Spring, Maven, Hibernate, JPA), C# (.NET Core, ASP.NET MVC, Entity Framework Core, NuGet Package Manager), Kafka, Spark, React Native, ROS (Robot Operating System), and Linux (Ubuntu).
- Soft Skills:** Teamwork, project management, strong communication and team leadership.

VOLUNTEER EXPERIENCES

Mentor	Globa AI Hub Sep 2024 - Present
<ul style="list-style-type: none">• I mentor participants on topics related to artificial intelligence, machine learning, and deep learning.	
Perception Prediction Team Member	Subü Tetra Jul 2023 - Mar 2024
<ul style="list-style-type: none">• I participated in an autonomous vehicle project, where I was responsible for developing algorithms to perceive the vehicle's environment, such as detecting traffic signs, which included 22 distinct classes, human detection and tracking from point cloud data, park area detection etc.	