AYŞENUR ARSLAN | SOFTWARE ENGINEER

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ABOUT ME

I am a Computer Engineer focused on artificial intelligence and data science. I have technical experience in natural language processing (NLP), image processing, deep learning, and machine learning projects using Python. With strong data analysis skills, I develop AI-driven solutions and produce effective technological outcomes through my analytical approach.

EXPERIENCE

Data Science & AI Intern | Company Name Withheld Due to NDA

July 2025 – August 2025
- Developed machine learning solutions for time series analysis, behavior modeling, and classification using sensor data
- Built feature engineering and data labeling systems
- Applied Random Forest modeling, handled data imbalance and cross-validation

Administrative Support Staff (İŞKUR Youth Program) | Konya Technical University – Faculty and Administrative Units

March 2025 – May 2025
- Supported organizing, classifying, and digitizing university archive documents
- Participated as a presenter and team member in the 1st International Student Cultural Festival
- Actively involved in planning, team coordination, and crisis management during the event

Python Instructor | Kodland | Remote

September 2024 – Present
- Taught Python and Flask-based software development to young students
- Designed project-based content using real-world scenarios to encourage hands-on practice
- Contributed to 85% of students completing individual web applications by the end of the term

AI Development Intern | PigaSoft | Konya

July 2024 – August 2024
- Developed a license plate recognition model using YOLOv8
- Conducted object detection and tracking of vehicles
- Trained models with deep learning datasets and optimized performance

EDUCATION

Bachelor's Degree in Computer Engineering | Konya Technical University

2021-2025

PROJECTS

Campground API | Data Scraping & Analysis Platform
- Used FastAPI, Docker, and PostgreSQL to implement a location-based web scraping and data analysis process, with end-to-end automation through a RESTful API. GitHub

SentimentScope | Social Media Sentiment Analysis
- Performed sentiment analysis on 16,000 Turkish tweets using NLP and hybrid modeling (ML + DL), achieving 84% accuracy in detecting societal sentiment trends. GitHub

Twelenium
- Developed an automatic data collector using Selenium that gathers tweet data without API, filters by date and keywords, and stores results in SQLite and JSON formats. GitHub

Image Analysis and Conversational Assistant
- Designed a multimodal AI system integrating YOLOv8 and NLP, enabling user interaction via Python command-line interface. GitHub

Fruit Ripeness Prediction with Hyperspectral Imaging
- Applied dimensionality reduction using CARS and PCA on hyperspectral images, then predicted fruit ripeness with 90%+ accuracy using AlexNet and Random Forest. GitHub

SKILLS

- **Programming:** Python (Advanced), C, Java, HTML/CSS
- **Deep Learning:** CNN, YOLO, BERT, Transformer models
- **Machine Learning:** Classification, hyperparameter tuning
- **NLP:** HuggingFace, SpaCy, NLTK, sentiment analysis
- **Databases & Tools:** SQL, PostgreSQL, Git, Docker, Flask
- **Libraries:** PyTorch, scikit-learn, pandas, NumPy, OpenCV, Selenium
- **Languages:** English, Turkish (Native)
- **Certifications**: Game Development with Unity (BTK), Introduction to AI (BTK), Introduction to NLP (BTK), Security in Development (Techcareer)

REFERENCES

Evren Üstündağ – Chief of Staff   Konya Technical University   Phone: +90 544 680 80 92

Alper Kılıç – Assistant Professor, Ph.D.   Konya Technical University   Phone: +90 505 560 03 21

Nurdan BAYKAN – Assoc. Prof. Dr.   Konya Technical University   Email: nbaykan@ktun.edu.tr