

YAKUP BÜLBÜL

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PROFESSIONAL SUMMARY

Artificial Intelligence Master's student with a Computer Engineering background and hands-on experience in machine learning, automation, and backend development. I build scalable AI-driven solutions that improve efficiency and create measurable business impact. Combining strong technical skills with business awareness, I focus on developing intelligent systems that are practical, reliable, and aligned with real-world needs.

EDUCATION

Universität Erlangen-Nürnberg **October 2024 - September 2027**
Master's, Artificial Intelligence *GPA: 3.0*

- Machine Learning, Deep Learning, Computer Vision, Reinforcement Learning, Intelligent Systems

Abdullah Gül University **September 2020 - July 2024**
Bachelor's, Computer Engineering *GPA: 3.55*

- Algorithms & Data Structures, Software Architecture, Database Systems, Operating Systems, Computer Networks

CERTIFICATIONS

- Advanced Machine Learning & Model Evaluation
- Deep Learning for Computer Vision
- Reinforcement Learning Foundations
- Applied Neural Networks with Python
- Cloud-Based Machine Learning Deployment
- Data-Driven Decision Making & Analytics

PROFESSIONAL EXPERIENCE

B-TEX Fashion GmbH **Ketsch, BW, Germany**
Data Entry & AI Model Development (Python / Amazon SP-API) *November 2025 - Present*

- Developed Python automation pipelines using Amazon SP-API, reducing manual product-processing time by 40–60%.
- Implemented robust authentication, retry/backoff, and error-handling logic, decreasing API-related failures by ~70%.
- Standardized validation and preprocessing rules, improving product data accuracy by 30% and reducing rework.
- Automated bulk listing and update workflows, supporting management of 900+ SKUs.
- Produced structured internal documentation, reducing onboarding time for new contributors by ~50%.

Kodland **Remote**
Sales Representative *February 2024 - March 2026*

- Achieved approximately 50% conversion rate through consultative selling, needs analysis, and effective objection handling.
- Managed the sales cycle end-to-end: qualification, program recommendation, follow-up strategy, and closing.
- Strengthened pipeline discipline by maintaining structured tracking and consistent follow-ups.

UnitedFilms GmbH **Mannheim, BW, Germany**
Application Developer *August 2023 - January 2024*

- Supported integration work, bug fixes, and release preparation through structured debugging and testing.
- Collaborated with stakeholders to refine requirements and improve product usability.
- Gained experience in German work culture and international media operations.
- Collaborated with European TV channels and digital influencers.
- Conducted product analyses and prepared marketing reports for B2B communication.
- Contributed to a mobile app project promoting healthy nutrition.

HAVELSAN **Ankara, AN, Turkey**
Software Developer & Algorithm Researcher *June 2023 - August 2023*

- Implemented image recognition and pansharpener algorithms for aerial/satellite imagery with improved processing efficiency (~20%).
- Used Python (NumPy, OpenCV) for data preprocessing and visualization.
- Contributed to the R&D unit developing national defense image analysis tools.
- Supported algorithm research tasks through testing, debugging, and summarizing results for technical stakeholders.

- Assisted with comparisons of approaches and prepared documentation to support decision-making.

ADI Global Distribution

Software Developer

Ankara, AN, Turkey
January 2022 - February 2023

- Developed and maintained API-integrated modules supporting internal operations.
- Improved feature reliability through structured debugging, reducing recurring issues by ~30%.
- Contributed to iterative product releases, participating in bi-weekly sprint cycles.
- Strengthened database performance via query optimization and structured improvements.

PROJECTS & OUTSIDE EXPERIENCE

ZPL to PNG Converter for the open-source community

- Built a multilingual label-conversion tool supporting 6 languages.
- Enabled instant client-side processing via Labelary API, generating PNG labels in <2 seconds.
- Designed drag-and-drop interface improving usability and reducing friction.
- Live Code Editor: Quickly paste and tweak raw ZPL code directly in the browser's designated tab.
- Delivered a privacy-focused solution with 0 tracking / 0 sign-up requirement.
- [Link to project](#)

PlantNet-300K Plant Identification System | Bachelor Capstone Project

- Designed and developed a computer vision and machine learning system for plant species identification using deep feature extraction and similarity search on the PlantNet-300K dataset with 306K+ images across 1,081 species.
- Built an end-to-end image retrieval pipeline in Python, covering dataset preprocessing, embedding generation, metadata handling, evaluation, and API-based inference.
- Generated visual embeddings with pretrained deep learning models, including ResNeXt50_32x4d and ViT-B/32, to support species-level image similarity matching.
- Implemented FAISS IndexFlatL2 nearest-neighbor search and a Flask API to return predicted plant species and related metadata from input images.
- Improved model performance to over 70% accuracy during experimentation and pipeline refinement, and prepared the project as a publishable research-style repository.
- Tech: Python, PyTorch, FAISS, Flask, OpenCV, Pandas, NumPy, Computer Vision, Image Retrieval, Deep Learning
- [Link to project](#)

StreakMates — Habit & Streak Tracking Platform

Personal Project

- Built and deployed a streak-based habit platform enabling users to define goals, track daily check-ins, and maintain streak continuity.
- Implemented streak logic to handle practical scenarios (missed days, repeated actions, state consistency).
- Designed the platform's algorithm for streak preservation, ensuring data integrity during repeated actions; resulted in 20% fewer database inconsistencies, thereby improving data reliability.
- [Link to project](#)

SKILLS

Programming Languages: Python, C/C++, Java, R, Dart, SQL, JavaScript

Artificial Intelligence & Machine Learning: Machine Learning, Neural Networks, Computer Vision, AI Agents, LLM, Graph Neural Networks (GNNs), Tensorflow, Pytorch

Data Science & Analytics: Data Analysis, Weka, Data Preprocessing, Statistical Analysis, Data Visualization

Backend & API Development: FastAPI, Node.js, Flask, REST APIs

Databases: MySQL, MongoDB, Firebase

Cloud & Infrastructure: Google Cloud Platform, Microsoft Azure, Cloud Deployment, VPS Servers

DevOps & Development Tools: Git, GitLab, Docker Compose, Docker, CI/CD Pipelines

Automation & AI Workflows: Workflow Automation (n8n, Opal), AI-Driven Process Automation, Intelligent Process Optimization

Frontend & Mobile Development: React.js, Flutter, iOS/Swift

Software Engineering Practices: Agile, SCRUM, A/B Testing, Modular Code, Maintainable Architecture, Documentation

Sales & Communication: Consultative Selling, Objection Handling, Stakeholder Communication

Office & Collaboration Tools: Excel/Numbers/Sheets, Word/Pages/Docs, PowerPoint/Keynote/Slides, Slack, CRM Systems

Languages: German, English

Interests: Urban exploration and outdoor walks, experimenting with mixology and creative flavor combinations, following developments in artificial intelligence, emerging technologies, and digital innovation.