

ERENCAN YAKUT

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EDUCATION

Yildirim Beyazit University, Ankara
Computer Engineering (English Program)
GPA: 3.45

September 2020 - Present (4th year)

CARRIER OBJECTIVE

Aspiring Computer Engineering student with a strong interest in AI and NLP. Eager to apply knowledge through practical projects. Aiming to specialize in AI with future plans for a masters degree.

PROJECTS

NailArt with AI (TUBITAK 2209-A Research Project Support Programme)

My graduation project focuses on nail segmentation and style transformation. I utilized the SAM model with LoRA for nail detection and segmentation, while GAN-based models were employed for style transfer.

Thin Crack Detection with Pretrained Models on Ceramic Plates

This project focuses on detecting micro-cracks on ceramic plates that are difficult to observe with the naked eye. To enhance their visibility, techniques such as CLAHE, contrast equalization, and morphological methods are employed. Subsequently, pretrained models are utilized to identify the cracks.

PostgreSQL Furnace Data Partitioning and Analyzing

Built a time-based PostgreSQL partitioning structure for large furnace data, with automated daily, monthly partitions and per-partition indexing to maximize query performance. (Shared buffers, work mem)

Advanced RAG System with Enterprise Documents

In this project, internal company documents were indexed using Pinecone, and embeddings were generated with NVIDIA's NV-Embed-v2 model. Queries were processed through Google Gemini Flash 2.0, with token-level cost calculations implemented to optimize efficiency. Additionally, LangGraph was used to build agentic loops, enabling dynamic and autonomous task management within the system.

TECHNICAL STRENGTHS

Programming	Java, Python, C++
Software & Tools	Git, SQL, Qt, PyTorch, LangChain, SmoleAgents, LlamaIndex, Langgraph

WORK EXPERIENCE

NUROL TEKNOLOJİ <i>Candidate Engineer</i>	November 2024 – Present
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I contribute to RD efforts by exploring AI-driven solutions for company projects. My focus is primarily on Natural Language Processing (NLP) and broader Artificial Intelligence techniques to solve complex problems and improve system performance.

Datart R&D Management Consulting and Software Development, LLC <i>Engineering Intern</i>	June 2024
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I developed a website project utilizing Next.js, Prisma, and React, focusing on creating a robust and scalable web application that leverages modern web technologies for optimal performance.

Oyak Renault ORVILLE SUMMER'24 <i>Engineering Intern</i>	August 2024
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I focused on Natural Language Processing (NLP), working on text preprocessing, text visualization, and sentiment modeling. I gained experience in data cleaning, model development, and hyperparameter optimization.