Cengizhan Bayram

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PROFESSIONAL SUMMARY

Dedicated AI Engineer specializing in Natural Language Processing and Computer Vision with hands-on experience in implementing cutting-edge technologies like LLM fine-tuning, RAG systems, and image processing. Demonstrated project success in legal tech, autonomous systems, and R&D applications. Currently pursuing a Computer Engineering degree while leading a technology club and contributing to innovative projects. Passionate about developing comprehensive AI solutions that push technological boundaries and deliver measurable results.

WORK EXPERIENCE

ENM DİJİTAL   **Feb 2025 – Present**
Natural Language Processing (NLP) Intern, Manisa

- Lead development of fine-tuning processes for Local LLMs to create optimized solutions for specific application requirements.
- Implement Whisper technology for high-accuracy voice recognition and natural language processing, ensuring seamless integration of audio and text data.
- Develop efficient and scalable solutions using RAG (Retrieval-Augmented Generation) technologies for improved information retrieval and text generation capabilities.
- Contribute to enhancing AI application performance across the organization by implementing innovative technological solutions.
- Implement and optimize TTS (Text-to-Speech) fine-tuning processes to create natural and customized voice synthesis solutions.

Aselsan Konya   **AGU 2023 – SEP 2023**
R&D and Image Processing Intern

- Applied various image processing techniques in projects that pushed the boundaries of technological innovation.
- Gained hands-on experience in research and development methodologies in a leading defense industry organization.
- Contributed to cutting-edge technology projects focused on advanced image processing applications.

EDUCATION

Manisa Celal Bayar University   **Expected Graduation: June 2025**
Bachelor of Science, Computer Engineering Manisa, Turkey

- **Founder and President of Quest Platform Club, providing guidance for technology and R&D sectors.**
- **Focus on Computer Vision and Natural Language Processing (NLP) applications and research.**

SKILLS

Technical: Python, Java, Image Processing, Machine Learning, NLP, Deep Learning, SQL, Research, Excel, Large Language Models (LLMs), Fine-tuning, Text Classification, Named Entity Recognition (NER), Sentiment Analysis, RAG (Retrieval-Augmented Generation), Prompt Engineering, Token Optimization, Vector Embeddings, Transformers, TTS (Text-to-Speech), OpenAI API, Hugging Face, LangChain, LlamaIndex

Languages: Turkish (Native), English (C1), German (A2)

MAIN PROJECTS

TUSAŞ - LİFTUP Project

AI Research Contributor

- Actively participated in developing an AI-powered R&D and technology recommendation tool, enhancing decision-making processes.
- Extracted data from academic databases using REST API/SERP API and applied NLP and web scraping techniques to analyze technological studies.
- Created matching algorithms between company competencies, international project calls, academics, and industry stakeholders.
- Contributed to user-friendly interface design supported by LLM fine-tuning and optimization solutions.

Law Language Motion (LLM)

TEKNOFEST 2024 Antalya T3AI Hackathon - Application Development Category

- Finalist in the natural language processing competition with an AI-powered dynamic chatbot that simplifies complex financial information in the legal domain.
- Created accessible, interactive, and personalized solutions that improve upon static legal platforms.
- Implemented AI-powered analysis and educational responses to accelerate and enhance legal data processing.

Teknofest SolarVizyon Project

Team Member

- Made significant contributions to the development of 'Solar Vizyon,' a project focused on displaying and analyzing the performance of solar panels.
- Applied artificial intelligence and image processing techniques to enhance project efficiency and accuracy.

TÜBİTAK Project 2209a

Research Contributor

- Focused on developing autonomous driving systems using artificial intelligence and image processing technologies.
- Worked on improving environmental perception and decision-making processes of autonomous vehicles through machine learning and deep learning models.
- Processed, analyzed, and interpreted visual data for autonomous vehicle applications.

CERTIFICATIONS

- LLM Mastery: Complete Guide to Transformers & Generative AI (Udemy)
- BTK Akademi Statistics for Data Science
- Computer Architecture and Assembly Programming Course (Udemy)
- BTK Akademi Introduction to NLP
- Generative AI - Natural Language Processing Bootcamp 2025 (Udemy)
- LangChain Chat with Your Data (DeepLearning.AI)
- Modern Computer Vision with GPT, PyTorch, Keras, OpenCV4 (Udemy)
- AKBANK Machine Learning Bootcamp
- Python for AI Projects | Machine & Deep Learning (Udemy)
- Traditional Entrepreneurship Training (KOSGEB)
- Advanced Entrepreneurship Training (KOSGEB)
- AI Applications: Langchain, RAG, LLM Orchestration (Udemy)
- Deep Learning and Image Processing (Udemy)

REFERENCES

- **Dr. Volkan Altıntaş** - Assistant Professor at Manisa Celal Bayar University (Contact information available upon request)
- **Mehmet Nuri Öğüt** - Chair of AI and Innovation Workshop at Manisa Celal Bayar University (Contact information available upon request)