

Melike Zeynep Tapci

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Education

Istanbul Bilgi University, BSc. in Computer Engineering Sept 2020 – June 2024
• GPA: 3.09/4.0 - Graduated with Honors Degree

Technologies

Programming Languages: Python, JavaScript, TypeScript, Node.js, SQL, NoSQL

AI Frameworks and API's: LangChain, OpenAI API, Gemini API, ElevenLabs API, Azure AI Services

Web Development & CI/CD Tools: Flask, SQLAlchemy, MongoDB, React, Next.js, Tailwind CSS, Gradio, Docker, Azure Pipelines, Git, Vercel

Experience

AI Engineer, Abdi Business Technologies – Istanbul, Türkiye Aug 2024 – Present

- Worked on developing LLM-based AI applications for one of Türkiye's leading healthcare companies, Abdi Ibrahim Pharmaceuticals. Designed and deployed AI-driven chatbots and assistants working with Retrieval Augmented Generation with medical information, using Flask, SQL, MongoDB, OpenAI API, LangChain and Azure AI Services. Specialized in prompt engineering for Generative AI application development, enhancing model output quality and improving AI-driven interactions. Implemented CI/CD pipelines for automated testing and deployment, ensuring scalability, reliability, and efficiency in AI applications.
- Built MVPs using React, Next.js, and Gradio, integrating speech-to-text and text-to-speech with OpenAI Whisper and ElevenLabs services. Collaborated closely with customers, stakeholders, and end-users, gathering feedback to refine product functionality and usability.

IT Intern, Abdi Business Technologies – Istanbul, Türkiye Nov 2023 – May 2024

- Worked on development and integration of AI Models for Social Media Analytics. Developed machine learning models for classification with Azure AI Services, Python libraries such as Numpy and Pandas.

Machine Learning Intern, ServisSoft - Istanbul, Türkiye Aug 2023 – Oct 2023

- Developed machine learning models to predict and analyze the electricity usage, working with local supermarket data in Türkiye. Created a backend application for the ML project with Node.js and MongoDB.

Research Assistant, Istanbul Bilgi University - Istanbul, Türkiye Nov 2022 – June 2023

- Utilized MS Office and Google Workspace tools for collecting and preprocessing datasets for research of the professors in the Computer Engineering department. Contributed in interdisciplinary research data.

Projects

AI Tool for Psychoanalysis of Children's Drawings

- Developed an AI tool as Senior Design Project to automate a psychological assessment, the House-Tree-Person Test. Used CNNs and transfer learning to classify drawings and extract psychological features. Project was funded by TÜBİTAK, which supports scientific and technological research in Turkey nationwide.

Languages

- English : C1 (IELTS 7.0)
- German : B1
- Turkish: Native