Aydin Efendi

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Education

University of Warwick Sep 2024 – Jun 2027
Computer Science/Cybersecurity *Coventry, UK*

Work Experience

Senswise.co Feb 2024 – Aug 2024
Software Engineering Intern *Istanbul, Turkey*

- Collaborated with Senior Software Engineers to **fine-tune an Open Source BERT model for sentiment analysis**, leveraging techniques like **LoRA**, which reduced fine-tuning time by **30%**, optimizing the model's performance on limited hardware resources
- Conducted **unit tests** using **Python** to ensure code functionality and reliability across multiple components of the application
- Performed **end-to-end testing** using **Playwright**, rigorously validating user workflows and integration points to improve overall product quality

Leadership

Chief Executive Officer (CEO) & Founder, Holocron | *Website* **Dec 2024 – Present**

- **Drove 100% of the technical strategy and execution**, leading the design and implementation of a scalable **educational platform** using **Flask**, **Python**, and **SQLAlchemy**.
- Integrated critical systems, including **Stripe payments**, **automated webhooks**, and a robust **login authentication system**, ensuring secure and seamless user experience.

Projects

VoiceNote AI | *Source Code* **HTML | CSS | JavaScript | Python | SQL | API | Flask**

- Engineered a comprehensive **SaaS** application with a **JavaScript, HTML, and CSS** frontend, allowing users to **record audio** and transcribe it using the **OpenAI API**, enabling real-time querying and interaction with the audio content.
- Implemented a scalable **Flask** backend in **Python**, integrated with a **Postgres** database for efficient storage and management of audio files, and developed **RESTful API** endpoints to ensure seamless data retrieval and processing.
- Developed an additional **Chrome Extension** feature to facilitate quick audio recording directly from the browser, enhancing user convenience and accessibility.
- Created a secure login and signup authentication system using the **Google API** for user verification and integrated **Mailgun API** to send **OTPs** to users for enhanced security.

Semantic Book Recommendation | Website **Python | Jupyter Notebook | Pandas | NLP | Numpy |**

- Developed a **semantic book recommendation system** leveraging **LLMs and vector search** for content-based matching.
- Implemented **document embeddings** and **zero-shot classification** to enhance book categorization and retrieval.
- Utilized **LangChain** for text preprocessing and chunking.
- Designed and integrated a **vector database** using **ChromaDB** for efficient book similarity search.
- Engineered an **end-to-end AI pipeline**, incorporating **Hugging Face transformers**, **OpenAI APIs**, and **custom NLP workflows** for optimized recommendations.

Technical Skills

Languages: Python, SQL, HTML, CSS, JavaScript, C

Developer Tools: Postman, Git, Jira, Linux, PostgreSQL, MongoDB, SQLite, AWS, ChromaDB, Jupyter Notebook, Splunk Cloud, Wireshark

Libraries/Frameworks:PyTorch, Flask, Docker, Playwright, Matplotlib, NumPy, Pandas, Tailwind, Hugging Face Transformers