MERT CAN DEMIR

Interested in artificial intelligence. Open source and free software lover. Producing electronic music.

LinkedIn | mertcandemir.dev | me@mertcandemir.dev | GitHub

Skills

- Python | Java | C | JavaScript | React | Flutter | Git | CI/CD | Docker | Docker Compose | Unit Testing | Pytest | FastAPI
- Microservices | NumPy | Pandas | Matplotlib | Seaborn | TensorFlow | PyTorch | PySpark | Statistical Analysis | Playwright
- Feature Engineering | Artificial Intelligence | Data Science | Machine Learning | Deep Learning | NLP | Computer Vision
- Recommendation Systems | Phishing Detection | English

Experience

Machine Learning Engineer — **Brandefense** — *Ankara, Turkey* — **01/2022 - 08/2022 (8 months)**
Machine Learning Engineer, Intern — **07/2021 - 12/2021 (6 months)**

- Led the development of microservice applications for phishing with machine learning, using technologies like Python, Pytest, FastAPI, and Docker with CI/CD.
- Was responsible for reviewing pull requests from the team to ensure the quality is good enough for deployment.

Data Scientist, Intern — **JotForm** — *Ankara, Turkey* — **08/2020 - 10/2020 (3 months)**

- Worked on a spam detection project that uses neural networks and various NLP methods with Python and TensorFlow in an 8-week internship at the Data team with the accuracy of 94% with a user interface via React.

Junior Data Scientist, Part-time — **Hacettepe University Dist. Edu. Appl. and Res. Ctr.** — **10/2019 - 05/2020 (8 months)**

- Worked on implementing text-to-speech and speech-to-text systems.

Education

Bachelor of Science — **Hacettepe University** — *Ankara, Turkey* — **2017 - 2022 (4 years)**

- Major in Computer Engineering, *3.37/4.00*

Projects

fleam: The project is devised as a movie/series streaming platform like Netflix, HBO Max, Prime Video, and Disney+. Unlike other platforms, the platform is also designed to support small movie/series producers. I have contributed to the platform's front end, which has been written with React, and the recommendation service with FastAPI and Docker Compose. The source code of the project can be accessed from here.

HitHub: The purpose of the project is to help people to decide whether songs that are already on Spotify are going to be a hit with machine learning and deep learning. The source code of the project can be accessed here.

Others

Deep Learning Study Group: Completed DeepLearning.ai Study Group #5 (held by inzva) successfully. In this study group, the participants get an opportunity to interact with other participants, community members, and guests to improve their knowledge of deep learning, apply it effectively, and build a career in AI. The report of #5 can be seen here.

Hacettepe Free Software Society: I was one of the co-founders of the society and public relations officer for 2 years.

Python Tutor: Was an instructor in 8-week Python 3 course organized by Hacettepe Free Software Society and HUBITO (Hacettepe University Biology Society). The recordings of the lecture (taught in Turkish) can be found here.

ACM Hacettepe App: Helped to make and maintain the ACM Hacettepe's app, which is written with Flutter, with the other volunteer developers, and help other projects which are pursued by the development team. The app can be found here.

auto-cpufreq: Contributed to the project, which is a popular application to automatize CPU speed and optimize power for Linux based on active monitoring of the laptop's battery state, CPU usage, CPU temperature, and system load, by bringing mechanism to adjust EPP (Intel Speed Shift) values.

drop-cache-if-idle: Wrote a simple yet efficient script to temporarily mitigate the issue of RAM usage on WSL2. Due to that issue, WSL2 (Windows Subsystem for Linux 2) doesn't return the cache, instead, the amount of cache grows until the WSL2 instance's assigned RAM is full. The script makes sure that the WSL2 instance is idle, then drops the cache. With that approach, we could eliminate the speed issue when running apps on WSL2, for some of the cases. The source code of the script can be accessed here.