ONUR SEFA OZCIBIK

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EDUCATION

2017 - 2022   **Bogazici University**   GPA: 3.33/4.0
Computer Engineering, **BS**

RESEARCH AND WORK EXPERIENCE

Deep Learning Engineer   February 2021 - Present
Masraff   *Istanbul, Turkey*
- Designed, implemented, and built deep learning models for real-life problems using RNN, CNN, LSTM, and Attention.
- Worked on information extraction, object detection, and document classification problems.
- Researched state-of-the-art methodologies from conference papers and adapted them to our projects.

NLP Lab Participant   June 2021 - November 2021
Bogazici University   *Istanbul, Turkey*
- Attended weekly meetings and inspected NLP projects and datasets built for the Turkish language.
- Worked on several preprocessing projects to refine them.

Deep Learning Researcher Intern   February 2021 - March 2021
MotiWe   *Istanbul, Turkey*
- Worked on an object detection project that discriminates supermarket items lying on shelves.
- Worked on a labeling tool for an automobile production line checker project.

Deep Learning Intern   August 2020 - October 2020
Sestek   *Istanbul, Turkey*
- Became familiar with the base ML and DL concepts preparing introductory computer vision projects.
- I worked on a semi-supervised audio classifier project that recognizes defective factory machines by their sounds using the autoencoder structure.

FrontEnd Developer   June 2019 - January 2020
DogGo   *Istanbul, Turkey*
- Prepared a webpage for adopting dogs from shelters using React, Redux, and Sass.

TEACHING EXPERIENCE

Student Assistant, Principles of Programming Languages   February 2021 - July 2021
Bogazici University   *Istanbul, Turkey*
- Prepared a homework project to enhance students' logical programming knowledge.
- Prepared a dataset, answer sheets, documentation, and meetings.
- Attended problem sessions, responded to student questions, and exemplified solution methodologies.

MAIN PROJECTS

Some of my projects are listed here. Other projects and details of the listed projects can be found on my web page.

Generating Art using Generative Adversarial Networks

I offered and worked with my colleague on this graduation project because I am interested both in art and vision. I inspected several open-source notebooks and used the VQGAN model. I implemented a methodology that examines images part by part in every iteration step. I have enhanced previous loss functions used by some notebooks and refined the algorithms to fit the model to comparably small hardware. We have prepared semi-automated and automated pipelines and prepared an example conference paper.

Open Domain End-to-End Question Answering System built on BERT

I attended NLP master classes for two semesters at Bogazici University and prepared this project with my classmate. We inspected several conference papers and presented the project updates to other class members while analyzing other group projects. We have trained the two-phased model in an end-to-end manner and wrote an example conference paper.

Tax Office ID Extraction from Expense Documents

The expense documents have to include tax office ID by law in Turkey, and I aimed to extract this number using NLP techniques. After detecting the candidate texts out of OCR results, the model encodes them with their neighbor texts and line information. The encoding process highly depends on the attention mechanism. I discovered that using cosine similarity followed by the autoencoder method dramatically increases accuracy. I did the necessary preprocessing and testing tasks.

EXTRA-CURRICULAR ACTIVITIES

- My interest in art started when I was in high school. I have been doing oil paintings for six years. Art enables me to bring my inner feelings to the surface. It helps me to recognize my personality within different conjunctures. I exhibit my artwork on my Instagram and web pages.

- Whenever I find an opportunity, I go camping with my friends. We generally go, whether west of Istanbul or southwest of Turkey. Also, biking in Istanbul helps me to rest my thoughts. Biking through the coastline in summer evenings makes me feel excellent.