

Cemre Efe KARAKAS

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EDUCATION

Computer Engineering BSc 09/2017 - 01/2022
Boğaziçi University GPA : 3.25 / 4.00

Machine Learning, Applied Computer Networks,
Introduction to Database Systems,
Information Retrieval

Exchange Semester 01/2021 - 06/2021
CentraleSupélec

Cloud & Distributed Computing,
Agile Management of Complex Projects,
High Performance Simulation

EXPERIENCE

Udemy 07/2021 - Present
Software Engineering Intern

Working as part of the Communications team.
Developing solutions to optimize Udemy's
communication pipelines using **Django** & **Kotlin**.
Writing unit tests to ensure the integrity of new
releases. Monitoring releases through **Datadog**.

Boğaziçi University CATLAB 12/2020 - Present
Undergraduate Researcher

TÜBİTAK Intern Researcher Scholarship holder.

Working with [Pinar Yanardag](#) from MIT on GAN
inversion & latent space manipulation methods
using **PyTorch**, such as finding meaningful
directions in the latent space and output
manipulation based on labeled directions found by
supervised / unsupervised methods.

Tazi AI Systems 06/2019 - 09/2019
Software Engineering Intern

Using **Scala**, implemented a Multivariate Gaussian
Process Regressor that offers budget limitations
and is online trainable and runtime significantly.
This model is now deployed and it is being used by
Tazi's main product.

Implemented a data dashboard tool with **React**.

LANGUAGES

Turkish (Native)
English (C1)

French (C1)
Spanish (B2)

PROJECTS

CCTV mask usage detection 03/2020 - 04/2020
Individual Project

Collected data using **OpenCV** Labeled data with a
simple labeling tool coded in tkinter. Created a
Keras model to classify people into masked and
non-masked. Collected data for several days to
track changes in mask usage habits in Istanbul.
Was contacted by the Istanbul Municipality R&D
team for possible future collaborations.

Lisan language learning 05/2020 - Ongoing
Individual Web App Project (Maintenance)

Used **Django** to develop a full-featured language
learning app called Lisan, complete with a forum,
courses, units, tips, lessons, word by word
translations and question discussions. Lisan offers
courses for different languages with support for
multiple base languages. The project is deployed
with **Heroku** and uses **Celery** for periodic tasks.

Collaboration Platform 09/2020 - 02/2021
Front End Developer

Was one of the 3 front end developers on the
Akademise academic collaboration platform team,
where we used **React**, **HTML** and **CSS** to
implement the front end of the web app. This
project was developed for our 'Project
Development in Software Engineering' course.

Image generation w/ GANs 08/2019 - 11/2019
Project Lead

Led a team of three engineering students in a
group project. We implemented a GAN model
using Masked Residual Unit layers. I managed the
team and implemented necessary custom layers
using **Keras** and took part in creating the model
structure.

TECHNICAL SKILLS

Python, Java, C++, JS, Scala, SQL

Django, Flask, React, Axios, Celery, Redux

Keras, PyTorch, Sklearn, Feature Extraction
Logistic Regression, Decision Trees, SVMs, PCA

Cloud Computing, Docker, Kubernetes

Linux, Git