Cavit Çakır

Contact

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Nationality: Turkish
Gender: Male

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Languages

Turkish *native*
English *advanced*
German *basic*
Spanish *basic*

Programming

Python, Pytorch, Numpy, Tensorflow, C++, JavaScript, React Native, React, Nodejs, mySQL, git, Docker

Activities

- Sabanci University:
  - Founder of Board Games Club
  - Board Member of Newcomers Club
  - Board Member of Outdoor Sports Club

Hobbies

coffee brewing, origami, archery, outdoor sports, board games

Summary

Creative, eager to learn machine learning engineer candidate master's student. Seeks to use state-of-the-art techniques and methods to develop models and solve problems. Recently did NLP internship, NLP project, and two Computer Vision projects. Has hands on experience with Python, Pytorch, Numpy, Tensorflow, C++, React, React Native, Nodejs, and Solidity. Currently working on a Computer Vision related project. Looking forward to gain experience.

Education

2021- **Technical University of Munich** Munich/GERMANY
Masters's degree Informatics
Areas: Computer Vision, Machine Learning

2016-2021 **Sabancı University** Istanbul/TURKEY
Bachelor's degree Computer Science and Engineering
Partial Scholarship
Computer Science GPA: 3.78/4.0
Overall GPA: 3.29/4.0

2012-2016 **Izmir Private Turk Science High School** Izmir/TURKEY

Selected Projects & Research

2022 **Emotional Clustering of Social Media Users**
Advanced Practical Course
- Used pre-trained **BERT Model** and used its last 4 hidden layers' embeddings to cluster users.
- Preprocessed Reddit users posts according to pre-trained model.
- Applied different **Dimensionality Reduction Methods**, **HDBSCAN**, and **KMeans**.

2022 **3D Machine Learning Project**
Machine Learning for 3D Geometry Course
- Improved point cloud shape analysis of a Point Cloud Transformer using Curve Aggregation method.
- Transformed Jittor implementation of Point Cloud Transformer to **Pytorch**.
- Used ShapeNet Parts dataset.

2022 **3D Perception for Autonomous Driving**
Advanced Seminar Course
- Worked on 3D Object Tracking Methods with the Focus on Infrastructure sensors.
- Compared recently published papers from top top conferences.
- Written survey paper.

2020-2021 **Graduation Project - Meeting Scheduler Chatbot**
Advisor: Reyyan Terzioglu, Duygu Karaoğlan Altop
- Used **RASA Bot Framework** to develop the chatbot.
- Used **pretrained natural language understanding(NLU)** methods to process user inputs.
- Implemented GUI by using **React, Nodejs and Docker**.

2020 **Lexicon and Rule-based Named Entity Recognition**
Natural Language Processing Course
- Collected and preprocessed Turkish and English tagged data.
- Written **25 regex expressions** to catch entities.

2020 **Skin Cancer Classification**
Machine Learning Course
- Used **CNN and Transfer Learning** in order to help early diagnoses of skin cancer by the images of the skin segment
- Compared various machine learning methods that are suitable for this problem.

2019 **High Performance Computing Algorithms for the Hypergraph Partitioning Problem** PURE(Program for Undergraduate Research)
Advisor: Kamer Kaya
- Developed parallel algorithms with low-memory footprints for the hypergraph-partitioning problem.
- Implemented **parallel algorithms on multicore CPUs and manycore GPUs**.
- Used **C++** as main language.

2019 **Predicting Spotify Top List by Country Based on Weather Project**
Intoduction to Data Science Course
- Designed and implemented machine learning techniques to predict if song will be in top list or not, based on weather for Introduction to Data Science Course Project.

Experience

July20 - Oct20 **Machine Learning(NLP) Intern** Istanbul/TURKEY
Supervisor: Alptekin Kupcu
FineSci Technology
- Worked in **Classification and Clustering of News** project.
- Used Neural Natural Language Learning methods and transfer learning.
- Used **BERT** and other Transformer models.

Feb19 - Feb20 **Undergraduate Teaching Assistant** Istanbul/TURKEY
Instructors: Gulsen Demiroz, Duygu Karaoğlan Altop
Sabanci University
- Supported instructor with lab sessions for **Introduction to Computing** course. Used **C++** as main programming language.
- Mentored students during office hours and through one-to-one tutorials.
- Conducted interactive discussions on a weekly basis with 20-30 students and assisted them in clarifying questions.

Jan18 - Feb18 **Market Analyst Intern** Izmir/TURKEY
Enisolar Energy
- Informed supervisors and company leaders on markets and regional sales needs to best meet customer needs and maximize revenue.
- Maximized advertising efforts by developing content for media relations, corporate communications and social media posts.

Jan17 - Jun17 **Civic Involvement Project** Istanbul/TURKEY
Sabanci University
- Project member for elementary school students development.
- Played some mind games and spent 2 hours a week with them.