

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





As a Master's student in Informatics, I am an enthusiastic learner who is eager to apply state-of-the-art techniques and methods to solve complex problems. I have completed successful projects in Natural Language Processing and Computer Vision, and gained valuable hands-on experience in programming languages such as Python, C++, and technologies like PyTorch, TensorFlow, React, React Native, Node.js, and Solidity. Currently, I am working as a Working Student on Computer Vision and I am excited to further enhance my skills and gain more experience.

Education

2021-	Technical University of Munich <i>Masters's degree Informatics</i> Areas: Computer Vision, Machine Learning	Munich/GERMANY
2016-2021	Sabancı University <i>Bachelor's degree Computer Science and Engineering</i> <i>Partial Scholarship</i> <i>Computer Science GPA: 3.78/4.0</i> <i>Overall GPA: 3.29/4.0</i>	Istanbul/TURKEY
2012-2016	Izmir Private Turk Science High School	Izmir/TURKEY

Selected Projects & Research

2022-2023	NLP and Knowledge Graphs for Research Cluster Prediction and Analysis <i>TUM-DI-LAB Interdisciplinary Project</i> <ul style="list-style-type: none">• Worked on Unsupervised Classification of Research Papers and proposed a novel Hierarchical Classification Method while successfully applying existing methods.• Used various embedding models, such as SPECTER and Word2Vec, to enhance embedding quality.	
2022-2023	Panoptic Neural Field <i>Advanced Practical Course</i> <ul style="list-style-type: none">• Implemented the Panoptic Neural Field paper using Kaolin Wisp and the KITTI 360 dataset.• Optimized the architecture of the PNF by incorporating the Instant-NGP, resulting in improved performance.	
2022	Emotional Clustering of Social Media Users <i>Advanced Practical Course</i> <ul style="list-style-type: none">• 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 <i>Machine Learning for 3D Geometry Course</i> <ul style="list-style-type: none">• 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 <i>Advanced Seminar Course</i> <ul style="list-style-type: none"> • Worked on 3D Object Tracking Methods with the Focus on Infrastucture sensors. • Compared recently published papers from top conferences. • Written survey paper. 	
2020-2021	Graduation Project - Meeting Scheduler Chatbot <i>Advisor: Reyyan Terzioglu, Duygu Karaoğlan Altop</i> <ul style="list-style-type: none"> • 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 <i>Natural Language Processing Course</i> <ul style="list-style-type: none"> • Collected and preprocessed Turkish and English tagged data. • Written 25 regex expressions to catch entities. 	
2020	Skin Cancer Classification <i>Machine Learning Course</i> <ul style="list-style-type: none"> • 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	Predicting Spotify Top List by Country Based on Weather Project <i>Intoduction to Data Science Course</i> <ul style="list-style-type: none"> • Designed and implemented machine learning techniques to predict if song will be in top list or not, based on weather for Introdution to Data Science Course Project. 	

Experience

Dec22 -	Computer Vision Working Student <i>Advisor: Benjamin Taheri</i> <i>Quasara GmbH</i> <ul style="list-style-type: none"> • Worked on a Damage Classification project where I was involved in the preprocessing, training, and deployment stages. • Utilized various transformer models from Hugging Face and EfficientNet for this project. 	Munich/GERMANY
July20 - Oct20	Machine Learning(NLP) Intern <i>Supervisor: Alptekin Kupcu</i> <i>FineSci Technology</i> <ul style="list-style-type: none"> • Worked on a News Classification and Clustering project, where I utilized Neural Natural Language Learning methods and transfer learning techniques. • Specifically, I used BERTurk for this project. 	Istanbul/TURKEY
Feb19 - Feb20	Undergraduate Teaching Assistant <i>Instructors: Gulsen Demiroz, Duygu Karaoğlan Altop</i> <i>Sabancı University</i> <ul style="list-style-type: none"> • Provided support to the instructor in lab sessions for the Introduction to Computing course (CS201). Used C++ as a main programming language. • Mentored students during office hours and through one-to-one tutorials, helping them to better understand the course materials. • Conducted weekly interactive discussions with 20-30 students and assisted them in clarifying any questions they had. 	Istanbul/TURKEY