

Cavit Çakır


Contact

+49 176 32231832

Address: Munich

Nationality: Turkish

Gender: Male

 cavitcakir3@gmail.com

 /cavitcakir

 /cavitcakir

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

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 Karaođlan 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

Selected Projects & Research

- 2022-2023 **NLP and Knowledge Graphs for Research Cluster Prediction and Analysis**
TUM-DI-LAB Interdisciplinary Project
- 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**
TUM - Advanced Practical Course
- 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**
TUM - Advanced Practical Course
- Preprocessed Reddit users' posts according to the requirements of a pre-trained BERT model, and extracted the embeddings from its last four hidden layers to cluster the users.
 - Applied various dimensionality reduction methods, including HDBSCAN and KMeans, to cluster the users.
- 2022 **3D Machine Learning Project** 
TUM - Machine Learning for 3D Geometry Course
- Improved the point cloud shape analysis of a Point Cloud Transformer by implementing the Curve Aggregation method.
 - Translated the Jittor implementation of the Point Cloud Transformer to PyTorch.
 - Utilized the ShapeNet Parts dataset for this project.
- 2022 **3D Perception for Autonomous Driving**
TUM - Advanced Seminar Course
- Worked on 3D Object Tracking Methods, with a Focus on Infrastructure sensors.
 - Compared recently published papers from top conferences in the field and wrote a survey paper on 3D object tracking methods using infrastructure sensors.
- 2020-2021 **Bachelor's Graduation Project - Meeting Scheduler Chatbot** 
Advisor: Reyyan Terzioglu, Duygu Karaoğlan Altop
- Developed a chatbot using the RASA Bot Framework, which utilized pre-trained natural language understanding (NLU) methods to process user inputs.
 - Integrated the chatbot with a user interface that was implemented using React, Node.js, and Docker.
- 2020 **Lexicon and Rule-based Named Entity Recognition** 
Sabancı University - Natural Language Processing Course
- Collected and preprocessed Turkish and English tagged data, and developed 25 regular expression expressions to extract entities.
- 2020 **Skin Cancer Classification** 
Sabancı University - Machine Learning Course
- Utilized pretrained ResNet to aid in the early diagnosis of skin cancer using skin segment images.
- 2019 **Predicting Spotify Top List by Country Based on Weather Project** 
Sabancı University - Introduction to Data Science Course