

# Cavit Çakır


## Contact

+49 176 32231832

**Address:** Munich

**Nationality:** Turkish

**Gender:** Male

 cavitcakir3@gmail.com

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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-	<b>Technical University of Munich</b> <i>Masters's degree Informatics</i> Areas: Computer Vision, Machine Learning	Munich/GERMANY
2016-2021	<b>Sabanci University</b> <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	<b>Izmir Private Turk Science High School</b>	Izmir/TURKEY

## Selected Projects & Research

2022	<b>Emotional Clustering of Social Media Users</b> <i>Advanced Practical Course</i> <ul style="list-style-type: none"><li>• Used pre-trained <b>BERT Model</b> and used its last 4 hidden layers' embeddings to cluster users.</li><li>• Preprocessed Reddit users posts according to pre-trained model.</li><li>• Applied different <b>Dimensionality Reduction Methods, HDBSCAN</b>, and <b>KMeans</b>.</li></ul>	
2022	<b>3D Machine Learning Project</b> <i>Machine Learning for 3D Geometry Course</i> <ul style="list-style-type: none"><li>• Improved point cloud shape analysis of a Point Cloud Transformer using Curve Aggregation method.</li><li>• Transformed Jittor implementation of Point Cloud Transformer to <b>Pytorch</b>.</li><li>• Used ShapeNet Parts dataset.</li></ul>	
2020-2021	<b>Graduation Project - Meeting Scheduler Chatbot</b> <i>Advisor: Reyhan Terzioğlu, Duygu Karaoğlu Altop</i> <ul style="list-style-type: none"><li>• Used <b>RASA Bot Framework</b> to develop the chatbot.</li><li>• Used <b>pretrained natural language understanding(NLU)</b> methods to process user inputs.</li><li>• Designed and implemented website for chatbot by using <b>React, Nodejs and Docker</b>.</li></ul>	
2021	<b>NFT Marketplace</b> <i>Blockchain: Security and Applications Course</i> <ul style="list-style-type: none"><li>• Developed smart contract(<b>ERC721</b>) for non-fungible tokens with <b>Solidity</b>.</li><li>• Developed website with <b>React</b>.</li></ul>	

2020	<b>Lexicon and Rule-based Named Entity Recognition</b> <i>Natural Language Processing Course</i> <ul style="list-style-type: none"> <li>Collected and preprocessed Turkish and English tagged data.</li> <li>Written <b>25 regex expressions</b> to catch entities.</li> </ul>	
2020	<b>Skin Cancer Classification</b> <i>Machine Learning Course</i> <ul style="list-style-type: none"> <li>Used <b>CNN and Transfer Learning</b> in order to help early diagnoses of skin cancer by the images of the skin segment</li> <li>Compared various machine learning methods that are suitable for this problem.</li> </ul>	
2019	<b>High Performance Computing Algorithms for the Hypergraph Partitioning Problem</b> <i>PURE(Program for Undergraduate Research)</i> <i>Advisor: Kamer Kaya</i> <ul style="list-style-type: none"> <li>Developed parallel algorithms with low-memory footprints for the hypergraph-partitioning problem.</li> <li>Implemented <b>parallel algorithms on multicore CPUs and manycore GPUs.</b></li> <li>Used <b>C++</b> as main language.</li> </ul>	
2019	<b>Predicting Spotify Top List by Country Based on Weather Project</b> <i>Intoduction to Data Science Course</i> <ul style="list-style-type: none"> <li>Designed and implemented machine learning techniques to predict if song will be in top list or not, based on weather for Intoduction to Data Science Course Project.</li> </ul>	

## Experience

July20 - Oct20	<b>Machine Learning(NLP) Intern</b> <i>Supervisor: Alptekin Kupcu</i> <i>FineSci Technology</i> <ul style="list-style-type: none"> <li>Worked in <b>Classification and Clustering of News</b> project.</li> <li>Used Neural Natural Language Learning methods and transfer learning.</li> <li>Used <b>BERT</b> and other Transformer models.</li> </ul>	Istanbul/TURKEY
Feb19 - Feb20	<b>Undergraduate Teaching Assistant</b> <i>Instructors: Gulsen Demiroz, Duygu Karaoğlan Altop</i> <i>Sabancı University</i> <ul style="list-style-type: none"> <li>Supported instructor with lab sessions for <b>Introduction to Computing</b> course. Used <b>C++</b> as main programming language.</li> <li>Mentored students during office hours and through one-to-one tutorials.</li> <li>Conducted interactive discussions on a weekly basis with 20-30 students and assisted them in clarifying questions.</li> </ul>	Istanbul/TURKEY
Jan18 - Feb18	<b>Market Analyst Intern</b> <i>Enisolar Energy</i> <ul style="list-style-type: none"> <li>Informed supervisors and company leaders on markets and regional sales needs to best meet customer needs and maximize revenue.</li> <li>Maximized advertising efforts by developing content for media relations, corporate communications and social media posts.</li> </ul>	Izmir/TURKEY
Jan17 - Jun17	<b>Civic Involvement Project</b> <i>Sabancı University</i> <ul style="list-style-type: none"> <li>Project member for elementary school students development.</li> <li>Played some mind games and spent 2 hours a week with them.</li> </ul>	Istanbul/TURKEY