

Kadir Bulut Ozler

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Education

University of Arizona

August 2020 – May 2025

Doctor of Philosophy (PhD), Information (Major), Statistics and Data Science (Minor), 3.91/4.0

Tucson, AZ

- Notable Coursework: Advanced Statistical Natural Language Processing, Neural Networks, Bayesian Inference

Istanbul Technical University

September 2016 – June 2020

Bachelor of Science (B.S.), Computer Engineering (Major), 3.5/4.0

Istanbul, TR

- Notable Coursework: Analysis of Algorithms, Natural Language Processing, Computer Architecture

Experience

University of Arizona, Computational Language Understanding Lab

Tucson, AZ

Graduate Research Associate

January 2021 – Present

- Working on temporal information extraction on medical and news domains
- Building and implementing novel methods to extract time expressions and their relations from unstructured data
- Researching how to analyze and decrease the errors of large language models under the guidance of Dr. Steven Bethard

Intern

June 2019 – December 2019

- Used and modified the pipeline for BERT language model to detect incivility on the internet
- Researched and analyzed robust classification methods that can work on datasets with different features and different domains
- Achieved new state of the art results on used datasets and published a paper on the study

CicekSepeti.com / Lolaflorea.com

Istanbul, TR

Machine Learning Intern

March 2020 – July 2020

- Worked on detecting similarity between millions of products by description and images, accelerated the pipeline significantly
- Worked on improving search quality

Istanbul Technical University

Istanbul, TR

Research Member

June 2018 – July 2020

- Worked on analyzing offensive language in social media with transfer learning and other methods
- Researched training several language models for Turkish (a low resource language)
- Built an ear landmark detector from scratch using deep CNNs for “The Unconstrained Ear Recognition Challenge 2019”
- Built a sentence splitter tool by using JAVA and Regex for ITU Turkish NLP Pipeline with 99% accuracy

Skills

Key Areas: Machine Learning, Natural Language Processing, Neural Networks, Data Structures and Algorithms

Languages: Python, C++

Frameworks/Libraries: Keras, TensorFlow, PyTorch, scikit-learn, NumPy, Flask

Other: Docker, Git

Databases: PostgreSQL

Projects

Ear landmark detection with CNN

- The goal of the project: detecting locations of the anatomical landmarks on given human ear images
- Keywords: Computer Vision, Landmark Detection, Deep Learning, Keras, CNN, Python

Fine tuning transformers for multi label or binary classification

- The goal of the project: classifying text into single or multiple labels by using a language model
- Keywords: Natural Language Processing, Text Classification, Sentiment Analysis, Deep Learning, transformers, Python

NLP applications with Apple's createML

- The goal of the project: publishing documented examples of NLP applications with Apple's createML
- Keywords: Natural Language Processing, Machine Learning, Apple, createML, swift