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EDUCATION

Sabanci University, Istanbul, Turkey

Feb. 2022 - Present

M.Sc., Computer Science and Engineering

Thesis: Developing Turkish Language Models on Social Media

Advisor: Assistant Prof. Onur Varol

CGPA: 3.71/4.0

University Of Tabriz, Tabriz, Iran

Sept. 2017 - Sept. 2021

B.Sc., Computer Science and Engineering

CGPA: 16.58/20

PUBLICATIONS
GOOGLE SCHOLAR
CITATIONS: 16
H-INDEX: 3

Journal Articles

- J.3 Najafi, A., and Onur Varol. "Turkishbertweet: Fast and reliable large language model for social media analysis." Expert Systems with Applications 255 (2024): 124737.
- J.2 Najafi, A., et al. "First public dataset to study 2023 Turkish general election." Scientific Reports 14 (2024).
- J.1 Najafi, A., Gholipour-Shilabin, A., Dehkharghani, R. et al. ComStreamClust: a Communicative Multi-Agent Approach to Text Clustering in Streaming Data. Ann. Data. Sci. (2022)

Refereed Conference Proceedings

- C.2 Yener, Alp Önder, Ali Najafi, and Onur Varol. "City-level User Location Detection from Social Media and Analysis of Political Participation." 2024 32nd Signal Processing and Communications Applications Conference (SIU). IEEE, 2024.
- C.1 Najafi, Ali, and Onur Varol. "VRLLab at HSD-2Lang 2024: Turkish Hate Speech Detection Online with TurkishBERTweet." Proceedings of the 7th Workshop on Challenges and Applications of Automated Extraction of Socio-political Events from Text (CASE 2024). 2024.

CONDUCTED
RESEARCH AND
ACADEMIC
EXPERIENCE

VRLLAB, Istanbul, Turkey

Sept, 2022 - Present

- TurkishBERTweet

- * Achieved almost 10% significant improvement in the F1-Score of Text Classification Tasks
- * Developed classification pipelines for Sentiment Analysis and Hate Speech Detection Tasks
- * Trained TurkishBERTweet From Scratch
- * Used Google TPUs for Training the Language Model
- * Trained BPE tokenizer from scratch on 900M Turkish Twitter Data

- Turkish Election Dataset

- * Analyzed the Retweet Speed of specific Turkish Politicians for different time spans of election day
- * Conducted network analysis of politicians on Twitter using Networkx and Gephi
- * Analyzed the followers of politicians to identify social bots using Botometer
- CON-NET under CHIST-ERA call funded by EU and TUBITAK
 - * Integrating CONtent and NETwork structure for detecting, understanding, and mitigating online misbehaviour
 - * Building multimodal machine learning systems for estimating automated activities

INVITED LECTURER AND TALKS

- 1. Presented "VRLLab at HSD-2Lang 2024: Turkish Hate Speech Detection Online with TurkishBERTweet." paper in , May 2023
- 2. Presented "#Secim2023: First Public Dataset for Studying Turkish General Election." paper in Turkey Computational Social Sciences Conference (TCSS) 2023, Koc University, Turkey.
- 3. Applications of Large Language Models for Social Scientists, Political Science Course, Sabanci University, Dr. Fatih Serkant Adiguzel, Fall 2023
- 4. Natural Languages for Social Scientists, Summer Institutes in Computational Social Science (SICSS), Ozyegin University, Turkey, Summer 2023

TEACHING EXPERIENCE

Sabancı University - Faculty of Engineering and Natural Sciences

 CS210: Introduction to Data Science
 June. 2023 - Feb. 2024

 CS412: Machine Learning
 Feb. 2024 - June. 2024

 CS210: Introduction to Data Science
 Feb. 2023 - June. 2023

 CS412: Machine Learning
 June. 2022 - Feb. 2023

 CS210: Introduction to Computing
 Feb. 2022 - June. 2022

Computer and Language

Skills:

SKILLS

Programming Languages: Python, C++, Java

Frameworks: Pytorch, Tensorflow, Keras, Flax, Django

Librares: Matplotlib, Seaborn, Pandas, Numpy, Gephi, NetworkX, OpenCV, Jax, Docker

DataBase: SQL, NoSQL (Redis)

Familiar with GCP, AWS, LATEX, HTML, CSS, JS

Languages: English (Fluent), Persian (Native), Azerbaijani (Native), Turkish (Fluent)

Honors and Awards

Hate Speech Detection in Turkish - EACL"2024

Jan. 2024

Earned 3rd Rank among 11 participated teams

TUBITAK Scholarship

Aug. 2023 - Present

The Scientific and Technological Research Council of Turkey, Turkey

Awarded to full tuition waiver and a monthly stipend as a researcher in a project funded by TUBITAK

Sabancı University Scholarship

Feb. 2022 - Aug 2023

Sabanci University, Istanbul, Turkey

Awarded a 100% tuition scholarship and a monthly stipend as a Teaching Assistant