

# Berke Dilekoglu

dilekogluberke@gmail.com

## EDUCATION

### SABANCI UNIVERSITY

#### MSC IN COMPUTER SCIENCE

July 2022 | Istanbul, TR

Thesis Subject: SUMONet: Deep Sequential Prediction of SUMOylation Sites

GPA:3.77/4.00

### SABANCI UNIVERSITY

#### BS IN COMPUTER SCIENCE

Sep 2019 | Istanbul, TR

GPA:3.54/4.00

#### BS IN MECHATRONICS

Sep 2018 | Istanbul, TR

GPA:3.50/4.00

## LINKS

Personal://berkedilekoglu

Github://berkedilekoglu

LinkedIn://berkedilekoglu

Medium://@berkedilekoglu

Scholar://berkedilekoglu

## COURSEWORK

### GRADUATE

Machine Learning

(Research Asst. & Teaching Asst 3x)

Advanced Natural Language Processing

Deep Learning

Graph Theory

### UNDERGRADUATE

Data Structures and Algorithms

Linear Algebra

Probability and Statistics

Artificial Intelligence

## SKILLS

### PROGRAMMING

Languages:

Python • SQL • Unix shell

Packages:

TensorFlow • Pandas • Scikit-learn •

Hugging Face

Familiar:

C++ • AWS

## EXPERIENCE

### GINOA.IO | MACHINE LEARNING ENGINEER

March 2023 - Present | New York, US

- Created a document-based chatbot pipeline using ChatGPT, Hugging Face, and LangChain frameworks.
- Customized the pipeline to optimize the tradeoff between cost, performance, and time.
- Implemented an automated evaluation pipeline.

### HUAWEI | NLP RESEARCH ENGINEER

March 2021 - March 2023 | Istanbul, TR

- Working on data side of MLOps pipeline with SQL and Hive.
- Enhancing app tagging pipeline with preprocessing and transformers.
- Improving query expansion pipeline for better App Gallery search results.
- Implementing keyword extraction pipeline for enhanced App Gallery search results.

### FORD MOTOR COMPANY TURKEY | VISITOR RESEARCHER

Sep 2017 - May 2018 | Istanbul, TR

- Implemented an image stitching pipeline to create 360 degrees of view.
- Adaptation of real-time object detection and avoidance algorithms on image stitching pipeline.

### DURHAM UNIVERSITY | VISITOR RESEARCHER

June 2017 - Aug 2017 | Durham, UK

- Tested ready-to-use person re-identification algorithm on the synchronized thermal camera system.

## RESEARCH

### SABANCI UNIVERSITY TASTAN LAB | MSC. RESEARCHER

Jan 2019 - Jan 2022 | Istanbul, TR

- Collaborated with Assistant Professor Oznur Tastan to develop SUMONet, a deep learning tool which accurately predicts SUMOylation sites by using the mix of CNN and BiDirectional GRU architecture.

## OPEN SOURCE PROJECTS

2023 **LangChain**: Contributed to similarity metric documentation for vectorestores.

2022 **Warner-Me**: Development and deployment of Rest-API to inform users when their c

## AWARDS

2019 Academic Record High Honor Scholarship

2016-2019 CGPA > 3.5 Dean's High Honor List

2013 98<sup>th</sup>/1.5M High Honor Scholarship

## PUBLICATIONS

[1] S. Mağara, C. Yıldırım, F. Yaman, B. Dilekoglu, F. R. Tuta, E. Öztürk, K. Kaya, T. Taştan, and E. Sava. MI with he: Privacy preserving machine learning inferences for genome studies, 2021.

[2] A. Nabi, B. Dilekoglu, O. Adebali, and O. Tastan. Discovering Misannotated lncRNAs using Deep Learning Training Dynamics. *Bioinformatics*, 12 2022.

[3] C. Özbey, B. Dilekoglu, and S. Açiksöz. The impact of ensemble learning in sentiment analysis under domain shift. In *2021 Innovations in Intelligent Systems and Applications Conference (ASYU)*, pages 1–6, 2021.

