

Irem Ergun

CONTACT INFORMATION	Winston Chung Hall University of California Riverside, CA 92521 USA	<i>Linkedin:</i> linkedin.com/in/irem-machine-learning-engineer/ <i>E-mail:</i> iergu001@ucr.edu <i>Website:</i> cs.ucr.edu/~iergu001/ <i>Twitter:</i> twitter.com/irombie
EDUCATION	University of California, Riverside, CA USA Ph.D. Candidate, Computer Science, GPA: 3.83	September, 2018 - present
	Bilkent University, Ankara, Turkey B.Sc., Computer Science, GPA: 3.36	September 2013 - June 2017
WORK EXPERIENCE	University of California, Riverside, CA USA <i>Graduate Research Assistant/Teaching Assistant</i> <ul style="list-style-type: none">• Conducting research on privacy preserving machine learning protocols.• TA for Algorithms(CS141) and Effective Use of World-Wide Web(CS6) for 200+ students.	September, 2018 - present
	BoardClic, Stockholm, Sweden <i>Machine Learning Intern</i> Took initiatives in implementing a natural language processing (NLP) based data processing tool to unify heterogenous datasets to be used in the downstream.	May, 2021 - August 2021
	Nurd Innovation Center, Ankara, Turkey <i>Machine Learning Engineer</i> Implemented state-of-the-art malware detection methods using machine learning. Proposed and maintained the continuous integration pipeline.	September, 2017 - March 2018
RESEARCH PAPERS	<ul style="list-style-type: none">• Sparsified Secure Aggregation for Privacy-Preserving Federated Learning• Secure Aggregation for Privacy-Aware Federated Learning with Limited Resources (<i>Accepted at ICLR'22 SRML workshop</i>)• Locally Testable Non-Malleable Codes Against Decision Trees (<i>Ph.D. candidacy research</i>)	
PROFESSIONAL SKILLS	Programming Languages: Python, C++, Java, R, Matlab, HTML/CSS, SQL Frameworks and Libraries: Tensorflow, Keras, Pandas, numpy, SpaCy, PyTorch, AWS/Google ML infrastructure Skillset: Machine learning, privacy, cryptography, distributed learning, NLP, MLOps	
PROJECTS	Understanding microaggressions Gave a lecture about NLP basics through the lens of classifying microaggressions in Turkish using Neural Machine Translation and BERT.	2021
	Breast cancer classification Developed semi-supervised learning methods to classify different types of breast cancer using genomics data. Selected as the best undergraduate research project of the semester.	January 2017 - June 2017
	Pathy: Turkish sentiment analysis platform for Twitter (Senior Project) Worked as a part of 5 person team, conceived initial idea, and designed and took part in implementing the final solution, the code of which is on Github . Received the Innovation Award.	2016 - 2017
HONORS AND AWARDS	Deep Learning Nanodegree , Udacity, San Francisco, CA USA Global Teaching Fellow Scholarship , Delta Analytics, San Francisco, CA USA Full Scholarship , University of California, Riverside, CA USA Merit-Based Scholarship , Bilkent University, Ankara, Turkey	