Ekrem Guzelyel
B.S. & M.S in Computer Science, 2020

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EDUCATION

ILLINOIS INSTITUTE OF TECHNOLOGY, Chicago   Expected, December 2020
Co-terminal Degree in Computer Science (B.S. & M.S. Joint Degree)
Specialization in Computational Intelligence
Minor in Applied Mathematics
<u>Courses Taken</u>: *Elem. Linear Algebra, Discrete Structures,* **Data Structures & Algorithms, Data Mining,** *Probability/Statistics,* **Machine Learning, Deep Learning,** *Database Organizations*
GPA: 3.47/4.00

WORK EXPERIENCE & PROJECTS

Machine Learning Lab at IIT - Undergraduate Research Assistant, Chicago, IL   October 2018-Present
Research: *"Data Categorization for Transparent Text Classification"*
- *Summarize, preprocess movie reviews to desired format.*
- *Train a Convolutional Neural Network (CNN) model to classify text documents.*
- *Automate back propagation to identify reasoning for the decisions, using multiple models.*

Google - Engineering Practicum Intern (EP), Mountain View, CA   May 2018-August 2018
Project 1: *"Improving Targeting Quality using TensorFlow Model"*
- *Implemented a negative filtering for Google Search Ads using Deep Neural Networks.*
- *Created automated experiments to tune TensorFlow model performance.*
- *Observed significant improvements of quality (7.2%) over traditional logistic regression model.*
Project 2: *"Model Age Monitor"*
- *Created, tested and launched an online monitoring system that successfully catches old models and executes on-call alert using Python.*

ARC - Supplemental Instructor (SI)   August 2017-November 2017
Held weekly tutoring and review sessions for Calculus I

RESEARCH PROJECTS

Chicago Pothole Problem: Pothole Filler Route   January 2019-Present
Solve traveling salesman problem for the most efficient way to fill potholes looking at historical data.
Predicting Disease Span using Telomere Lengths - *SpartaHack V*   January 2019
Cleaned and preprocessed NIH survey data and trained a DNN to predict telomere lengths.
Locating Weaponry through Security Cameras - *IIT: VLSI Lab*   September 2017-November 2017
Collected and labeled video and photo data using LabelImg, vatic and ImageNet
Analyzing the Effects of Public Housing (TOKI) to Elections - *Rice University*   August 2015 - September 2015
Organized and analyzed data for gender and geographical distribution of votes using Java

SKILLS

Technical: **Python** (numpy, pandas, sklearn), **TensorFlow, Keras, Jupyter** Notebook, Java, Oracle, SQL
Languages: English (Fluent), Turkish (Fluent), Spanish (Starter)

AWARDS AND HONORS

Dean's List (Electrical Engineering Department - IIT)   Fall 2016, Spring 2017
National University Entrance Exam 1st & 2nd Stage (YGS-LYS)   March, June 2014
Ranked in top 25 among 2.086.087 students
Physics Olympiad Student   2010-2012

EXTRA CURRICULAR ACTIVITIES

ML@IIT (Machine Learning Club at IIT) - Events Chair   November 2018-Present
Weekend School Teacher and Mentor at TASC   September 2016-Present
Teach Turkish Classes (Volunteer) for 1-5th grades
Organize and lead Summer and Winter camps for high schoolers
University Prep Presentations and *How to Be Successful* Seminars   March 2015
16 Seminars Given in Istanbul, Kocaeli, Sakarya / TURKEY
Recent Hackathons Attended: BoilerMake, **LyftHack (2nd place)**, SpartaHack V