YIGIT ALPARSLAN

LINKEDIN.COM/IN/YIGIT-ALPARSLAN
YA332.GITHUB.IO
ALPARSLANYIGITCAN@GMAIL.COM
(267) 690 8405
GITHUB.COM/YA332
PHILADELPHIA, PA, US

EDUCATION

M.S. in Computer Science | B.S. in Electrical & Computer Engineering | Drexel University

- Concentrations: Artificial Intelligence and Computer & Network Security **Cumulative GPA: 3.97**
- Honors Degree, Dean's list Expected Graduation: June 2021

SKILLS

• Python • Java • BASH • C • MATLAB • MySQL • HTML • NodeJS • CSS • JavaScript
• React.js • Git • Jupyter Notebook • TensorFlow • PyTorch • NumPy • Keras • Pandas • Scikit-learn • NLTK • Tableau

WORK EXPERIENCE

STAR Intern | SAP North America, Inc. - Newtown Square, PA — Apr 2019—Present

- Boosted start time of an internal assignment tracker app (400 people) by 15% via lazy loading and caching.
- Improved interaction count by 3x for an internal training app by implementing a conversational AI.
- Created a neural network with 86% accuracy to predict SAP Max Attention customer churn rate.

Outage Analysis Technologies Coop | PJM, Audubon, PA — Apr 2018—Sept 2019

- Automated system performance for in-house applications, and databases via Python, PL/ SQL, and Visual Basic
- Tested/maintained new application functionalities throughout the agile development lifecycle with unit testing
- Created design specifications and associated testing documents by using Confluence/JIRA for quality control

Lem.ma, Inc | Start-up at Drexel University - Philadelphia, PA — May 2017— Sept 2017

- Created 2D and 3D plots/graphics (100+) by using Python and JavaScript for an online education website

PROJECTS & RESEARCH

HELP UP | Mental Health Support Platform| MERN Web App — January 2020

- Develop a non-emergency anonymous chat platform for people who need help with mental depression
- Code account registration, login, encrypted messaging, chatroom features by using MERN Stack and Socket.io.

Perceptual Hashing as a Facial Image Filter | Drexel University — April—June 2019

- Used Gaussian Blurring as a defense against adversarial attacks, which reported 3.6% increase in accuracy

Towards Evaluating Adversarial Attacks in Audio Domain | Drexel University — January-April 2019

- Crafted 27 CTC white-box, and PCA black-box attacks on DeepSpeech with 100% success
- Presented research at Stanford Undergraduate Research Conference, 2019

Evaluating Deep Neural Networks' Robustness | Drexel University — Nov—Dec 2018

- Performed 10,000+ non-targeted CW attacks to DNNs and reported an improvement of %44.3 on L_2 defense
- Presented at Harvard National Collegiate Research Conference, 2018

Improving Vanadium Batteries | Drexel Electrochemical Energy Laboratory — Sep—Dec 2017

- Simulated 2D/3D power flow in MATLAB, presented at Harvard National Collegiate Research Conference, 2017
- Scientific Publication, "Obstructed Flow Field Designs for Improved Power Density in Vanadium Redox Flow Batteries", B. Akuzum, **Yigit C. Alparslan,** N. Robinson, E. Agar, E.C Kumbur, J. Applied Chemistry, 2019

LEADERSHIP EXPERIENCE

- Drexel Society of Artificial Intelligence - Founder & President – Promote AI research, mentor members, facilitate workshops
- DragonHacks (Drexel's very own 24-hour Hackathon) - Committee Member
- Resident Assistant 2018 – Facilitate freshman class residency trainings
- Teaching Assistant 2018-present – Teach Parallel Computing, Deep Learning and AI classes for graduate students
- Event Coordinator, French Club Peer-Mentorship Program - Awarded "Campus Awards" by the Embassy
- Drexel STAR Research Scholar; Undergraduate Research Leader; DAAD-Rise Germany Scholar; Secretary, EWB