Dhruv Sundararaman

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EDUCATION
University of Illinois at Urbana-Champaign (May 2024)
B.S in Computer Science + Linguistics
Current Coursework: CS 173 Discrete Structures | CS 128 Introduction to Computer Science II
Completed: CS 124 Introduction to Computer Science | MATH 241 Calculus 3 | MATH 225 Introductory Matrix Theory

EXPERIENCE
Software Development Intern at CMCI (June-Aug 2021)
- Utilized Spring Boot w/ Java to develop web-app to translate XML files to readable format
- Parsed thru 1000+ lines of data from Customs and Border Protection

ASSIP Research Intern at George Mason University (2020)
- Worked with Dr. Boicu of the Volgenau School of Engineering-George Mason University
- Tested nonlinear matrix transformation to improve upon existing natural language technology

ASSIP Research Intern at George Mason University (2019)
- Worked with Dr. Vaisman in the Laboratory for Structural Bioinformatics-George Mason University
- Trained a random forest classifier to detect geriatric depression from a set of factors
- Published abstract in the GMU Journal of Student-Scientists' Research

PROJECTS
CS-GAN
- Built a generative adversarial network to generate skins for weapons from Counter Strike: Global Offensive

A Generalization of Compositional Matrix-Space Models of Language for Short Answer Scoring
- Designed, trained, and tested a natural language model to automatically grade short essay test questions

Using a Random Forest Classifier to Diagnose Onset Geriatric Depression
- Used machine learning to diagnose geriatric depression w/ 70% accuracy from psychological questionnaire

Lie Detector
- Designed and tested machine learning algorithm with EEG signals to differentiate between truth and lies

AWARDS
- Eagle Scout - Troop 1983
- 3x Presidential Volunteer Service Award

SKILLS
Java · **Python** · **JavaScript** · **HTML** · **PyTorch**