

Pramoda Karnati

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EDUCATION

Massachusetts Institute of Technology

Candidate for Masters of Engineering in Computer Science

Bachelor of Science in Computer Science and Engineering | GPA: 4.6/5.0

Cambridge, MA

Jan 2020 – Dec 2020

Aug 2016 – May 2020

Relevant Coursework: *Computational Cognitive Science; ML for Healthcare; Machine Learning; Computer Vision; Principles and Practice of Assistive Technology; Assistive Technology in the Developing World; Advanced Algorithms; Probability and Random Variables*

Academic Positions: *Graduate Teaching Assistant, Oral Communication (6.UAT) and Artificial Intelligence (6.034)*

EXPERIENCE

Facebook

Software Engineering Intern, Business Interfaces

Menlo Park, CA

Current

- Developing tools for Business Inbox

Apple

Machine Learning Intern, Proactive Intelligence

Cupertino, CA

Jun – Aug 2019

- Built a generative statistical model to understand and analyze daily interests and habits of users using daily phone activity

Software Engineering Intern, Siri Client

Jun – Aug 2018

- Prototyped new features for CarPlay for client-facing applications

DeepHealth

Machine Learning Extern

Cambridge, MA

Jan 2020

- Analyzed output of breast cancer detection software to improve accuracy and reduce false positives

MIT Research

Cambridge, MA

Keane Lab

Automatic Assessment of Mammographic Images: Positioning and Quality Assessment – Master's Thesis

Current

- Improving medical imaging analysis for breast cancer detection; creating a model for automatic assessment of mammographic images to aid in better cancer detection

Keane Lab

Wearable Navigation for the Visually Impaired

Jan 2019 – Aug 2019

- Developing a smart-glasses system using image recognition pipelines and low-cost hardware
- Accepted for YCombinator interview, MIT 100k Finalist, IDEAS Global Challenge Finalist

Media Lab: Living Mobile Group

Wearable Technology to Detect and Deter Sexual Assault

Oct 2016 – May 2017

- Designing, programming, and testing wearable technology: worked on both the wearable and companion Android application

PROJECTS AND SKILLS

Selected Projects

- **VisionGlass:** Assistive OCR Glasses for People with Visual Impairments
- **Evaluating Deep Learning Methods in Prediction of Patients with Pediatric Crohn's Disease:** Evaluated methods to predict disease subtype of patients using RNA-Seq expression data with DeepNets and CNNs using the KEGG database
- **Modeling Parkinson's Disease Using MRI Images and Biomarkers:** Investigating Parkinson's progression and stage Parkinson's using magnetic resonance imaging and critical biomarker data
- **Toca (<http://toca-app.com/>):** Developed a mobile app to connect vulnerable communities with sustainable digital work.
- **Image Colorization with Classification:** Created a pipeline to apply category specific CNNs to black-and-white images
- **Classifying Pen-Based Handwritten Characters:** Used RNNs to classify online pen-based handwritten characters and built application to convert digital handwriting to text

Skills: Python; Java; C#; Objective-C; Swift; HTML, CSS, JavaScript; Unity; Keras, PyTorch, OpenCV; Android; Arduino

LEADERSHIP

MIT Bhangra Team: *Co-Captain*

2019 – 2020

- Organize team practices and choreography; organize competitions, gigs, and summer workshops; ensure smooth dynamics

MIT Global Startup Workshop: *Webmaster*

2018 – 2020

- Help organize annual global workshop to accelerate the entrepreneurial ecosystem of a host region, manage website

SAGE: Student Advisory Group for Engineering: *Board Member*

2018 – 2020

- Meet with and provide the Dean of Engineering a direct connection to the undergraduate student experience and perspective