

EDUCATION

- **University of Maryland** College Park, USA
PhD under Prof Abhinav Shrivastava May 2021 – Current
- **University of Maryland** College Park, USA
Master of Science in Computer Science; GPA: 3.92 Aug 2019 – May 2021
- **Ramaiah Institute of Technology** Bangalore, India
Bachelor of Engineering in Computer Science and Engineering; GPA: 3.77 (8.91/10.0) Aug. 2014 – July. 2018

PUBLICATIONS

- S.R. Maiya, M. Ehrlich, V. Agarwal, S. Lim, T. Goldstein, A. Shrivastava; A Frequency Perspective of Adversarial Robustness *Under Review*
- A. Bagmer, S.R. Maiya, S. Bidwalker, A. Deshpande; Membership Inference Attacks on Lottery Ticket Networks *ICML workshop, 2021*
- S. Girish, S.R. Maiya, K. Gupta, H. Chen, A. Shrivastava, L. Davis; The Lottery Ticket Hypothesis for Object Recognition *CVPR 2021*
- S.R. Maiya and Puneet Mathur; Rethinking Retinal Landmark Localization As Pose Estimation: Naive Single Stacked Network For Optic Disk And Fovea Detection. *ICASSP, 2020*
- S.R. Maiya and S. Chandra Babu; Slum Segmentation and Change Detection : A Deep Learning Approach. *NeurIPS (NIPS) ML4D Workshop, 2018.*
- S. Chandra Babu, S.R. Maiya, and S. Elango; Relation Networks for Optic Disc and Fovea Localization in Retinal Images. *NeurIPS (NIPS) ML4Health Workshop, 2018.*

EXPERIENCE

- **Apple Inc** Cupertino, CA
Computer Vision Intern June 2020 - August 2020
 - **SIML**: Worked in SIML (System Intelligence and Machine Learning) Team on the problem of Table Structure Recognition.
- **University of Maryland** College Park, MD
Graduate Researcher: Prof Abhinav Shrivastava Present
 - **GARD**: Working on a DARPA funded project in the domain of adversarial robustness.
- **Indian Institute of Science** Bangalore, India
Research assistant: Prof Raghu Krishnapuram July 2018 - July 2019
 - **Smart Cities**: Worked on deep learning based multi-camera multi-object detection and tracking for the Government of India.
 - **MBZIRC drone challenge**: Handled the vision requirements for the IISc team and deployed deep learning models on the edge.
- **Hyperverge Inc** Bangalore, India
Deep Learning intern Jan 2018 - Jun 2018
 - **e-KYC**: Built and deployed a pipeline for deep learning based object detection, scene text recognition for real time Know Your Customer service for a major international bank.
 - **Deep OCR engine**: Implemented and deployed a CRNN based OCR engine in Tensorflow

PROJECTS

- **Relation Networks**: Applied the concept of object-object relation modelling for medical imaging.
- **ModiScript**: A Turing complete esoteric programming language, based on Indian Prime Minister Modi's anecdotes.
- **Object Tracking Framework**: Built a complete end to end, deep learning based detector-tracker pipeline.
- **Samuha**: A python library of not so common, but powerful clustering algorithms

SKILLS

- **Languages & frameworks**: Python, C++, Pytorch, Tensorflow, Django.
- **Courses**: Machine Learning, Computer vision, Data Structures & Algorithms