

EDUCATION

- **University of California, Los Angeles** Los Angeles, CA
Master of Science in Computer Science; GPA: 4.0/4.0 Sept. 2018 – Mar. 2020
- **Pune Institute of Compute Technology** Pune, India
Bachelor of Engineering in Information Technology; GPA: 3.76/4.0 July 2014 – July 2018

SKILLS

- **Languages:** Python, C, C++, MATLAB, Julia, Unix Shell, CUDA programming
- **Frameworks:** PyTorch, Tensorflow, OpenCV, Flask, Scikit-Learn, Selenium, Cython
- **Tools:** AWS, Git, Tableau, GCP, Docker, Airflow, Kubernetes, Kubeflow, AWS Lambda, Boto3, Gitlab CI

WORK EXPERIENCE

- **Syntiant Corp.** Irvine, CA
Member of Technical Staff - Machine Learning Research Engineer Aug. 2021 - Present
 - **Text to Speech:** Building and maintaining a state of the art voice synthesizer with over 3000 voices covering a variety of accents, reducing data collection costs by more than 50% for demo models.
 - **Keyword Spotting:** Building compact, production-ready Keyword Spotting models that are deployed on Syntiant's patented edge devices and are used by over 10 million customers.
- **Alectio, Inc.** Santa Clara, CA
Machine Learning Scientist Apr. 2020 - Aug. 2021
 - **Automated Data Labeling:** Identification of noisy and redundant data points, pseudo-labeling, and unsupervised clustering. On average, the platform saved clients' data collection costs by over 40%.
 - **Active Learning:** Design and development of an AL framework supporting a variety of SOTA query strategies which was part of the core product actively used by multiple enterprises.
- **HOVER, Inc.** San Francisco, CA
Computer Vision Engineer Intern June 2019 - Sept. 2019
 - **Scene understanding:** Plane R-CNN based deep learning models for surface normal estimation and plane detection. Occlusion detection for complex residential structures using a student-teacher based network which reduced false positives by over 80% in downstream tasks.

PROJECTS

- **DeepWatch: White-Box Watchpoint for Deep Neural Networks:**
Guided by Prof. Miryung Kim (UCLA CS dept) on neuron-coverage based regularization and analysis for detecting adversarial examples in a set of realistic images.
- **Congested Scene Analysis using Dilated Convolutional GANs:**
Crowd density and count estimation of a crowded scene by using GANs with dilated convolution kernels. Undergraduate thesis project performed under the guidance of Prof. J.B Jagdale.
- **Redistricting using Active Contours:**
A new computational redistricting method that uses Chan-Vese active contours and K-Means clustering for drawing district boundaries to prevent gerrymandering.
- **Multi-grid Generative Convolutional Neural Networks:**
Implemented multiple, correlated deep energy based networks trained on the Celeb-A dataset to generate new photo-realistic images. Performed in the VCLA lab (headed by Prof. Song-Chun Zhu in the CS dept) under the guidance of a PhD student Ruiqi Gao.

ACHIEVEMENTS

- **Hack2innovate, Mumbai Edition:** Won multiple challenges at an Artificial Intelligence hackathon organised by Samsung, NVIDIA, and the Government of India (NITI Ayog).
- **NTT DATA Internship, Tokyo:** Selected for a six week IT Management internship from a pool of more than 800 applicants.