

## Education

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- **University of California, Santa Cruz** Dec 2022- June 2024  
Masters in Electrical and Computer Engineering
- **Anna University; RMD Engineering College, Chennai** June 2014- April 2018  
Bachelors of Engineering, Electronics, and Communication

## Work Experience

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- **Machine Learning Scientist II** Oct 2021- April 2022  
Lytx Inc.  
Bangalore, Karnataka, India
  - End-End Development of Compute-Friendly ADAS based ML/DL models
  - Research and Development experience in the following areas:
    - \* Model compression and NAS techniques
    - \* Knowledge distillation, Pruning, Quantization
    - \* Optimizing and deploying inference on various embedded processors
    - \* Signal Processing on mmwave Radars
- **Research Associate** Dec 2017- Sep 2021  
NeuRonICS Lab, DESE Department,  
Indian Institute of Science, Bangalore
  - Real-Time Object Detection and Localization in Compressive Sensing Video
  - N-HAR: neuromorphic event-based human activity recognition system
  - Proto-object based visual saliency model on NVIDIA Jetson TX
  - n-EAR: Neuromorphic Ego Motion - Vehicle Activity Recognition
  - System and Method for exhale controlled AAC device for IOT

**ICIP 2021**  
**ISCAS 2019**  
**ISCAS 2019**  
**US Patent App. 17/377761**  
**IN Patent App. 201641044496**

## Open Source Projects

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- **sconce: Model Compression and Deployment Package** Author
  - Built a one-stop compression package, that supports:
    - \* Pruning, Quantization and NAS
    - \* Deployment in ONNX, C/CUDA code generation
    - \* Sparsity Engine and Support for Inference level Optimizations
- **snntorch: Gradient Based Spiking Neural Networks** Contributor
  - Built Pruners for Spiking Neural Networks
  - Built support for model compression for snn models on sconce

## Technical Skills and Interests

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LLM/Fine-Tuning, Machine Learning, Deep Learning, Computer Vision, Model Compression, Signal Processing, Pruning, Quantization, MLOps/AIOps, Git, MATLAB, Python, C/C++, CUDA

## Positions of Responsibility

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### – Reviewer

- \* WACV 2019, 2020, 2022, 2023, 2024
- \* TPAMI IEEE Transactions on Pattern Analysis and Machine Intelligence