Sathyaprakash Narayanan

🌐 https://satabios.github.io/
✉ snaray17@ucsc.edu
+1 (831) 529-7133

Education

University of California, Santa Cruz   *Sep 2022-2024*
Masters in Electrical and Computer Engineering
Teaching Assistant: Python Programming; Signals and Systems

Anna Univeristy; RMD Engineering College, Chennai   *Jun 2014- Apr 2018*
Bachelors of Engineering, Electronics and Communication
Cumlative GPA: 8.14/10 [3.47/4] (WES Certified)

Work Experience

- **Machine Learning Scientist II**   *Oct 2021- April 2022*
  Lytx Inc.
  Bangalore, Karnataka, India

  * Training/Deployment of compute-friendly ADAS based computer vision DL/ML models for hardware
  * 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
  * Development of ML/DL models/signal processing pipelines for mmwave Radar

- **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   **ICIP 2021**

  * N-HAR: A neuromorphic event-based human activity recognition system using memory surfaces   **ISCAS 2019**

  * Real-time implementation of proto-object based visual saliency model on NVIDIA Jetson TX   **ISCAS 2019**

  * n-EAR: Neuromorphic Ego motion vehicle Activity Recognition   **US Patent App. 17/377,761**

- **Teaching Assistant and Support** for Deep Learning Certificate Program   *Dec 2018- Dec 2019*
  Great Learning, Bangalore

  – Responsible for developing content for assignments and in course code-walkthroughs

Technical Skills:

– Machine Learning – Deep Learning – Computer Vision – Model Compression/Model Pruning/Quantization – Pytorch – Tensorflow – MLOps/AIOps – Git – MATLAB – Python

Open Source Projects:

- **sconce (Author):** *Model Compression Python Package*
- **snntorch (Contributor):** *Deep and online learning with spiking neural networks in Python*