Sreenivas Venkobarao

sreenivasv@cs.umass.edu

linkedin.com/in/sreenivasvrao | github.com/sreenivasvrao

Mobile: 413-522-3672 27 Hadley Rd, Sunderland, MA - 01375

EDUCATION

University of Massachusetts, Amherst

Amherst, MA

Master of Science in Computer Science

Sep. 2017 - Jun. 2019

o Courses: Computer Vision, Neural Networks, Artificial Intelligence, Introduction to Simulation

SSN College of Engineering, Anna University

Chennai, India

Bachelor of Engineering in Electronics and Communication Engineering

Jul. 2013 - Apr. 2017

 Courses: Advanced Digital Signal Processing, Digital Image Processing, Computer Architecture, Computer Networks

SKILLS

- Languages: Python, MATLAB, Java Frameworks: Tensorflow, OpenCV, Scikit-Learn, Keras
- Software: Git, Heroku Hardware: Arduino

WORK EXPERIENCE

Computer Vision Intern

Chennai, India

e-Farmerce.com - Agricultural Analytics Platform

Jul 2017 - Aug 2017

Built a prototype system for identifying coconut farms from Satellite imagery. Implemented a system to
extract images, label them manually, and train Deep Learning models on the data. Gained exposure to
Ruby, and Python Deep Learning frameworks. Achieved 89% accuracy in predicting coconut farms.

RESEARCH EXPERIENCE

Xerox Palo Alto Research Center

Palo Alto, CA

Interactions and Analytics Lab Intern

June 2018 - Sep 2018

• Working under Dr. Matthew Shreve, on building fast (and dense) annotation tools for 3D objects, and reconstructing 3D models of novel objects.

Computer Vision Lab, UMass Amherst

Amherst, MA

Camera Rotation Estimation Group

Jan 2018 -

• Working under Professor Erik Learned-Miller on estimating camera rotation from a video sequence using optical flow. Implemented a novel technique to jointly align a sequence of images under camera rotation.

Depth Estimation from a Single Image

Course Project, UMass Amherst

Oct 2017 - Dec 2017

 Investigated supervised and unsupervised algorithms to estimate the depth of a 3D scene from a single image. Devised novel loss-functions, and evaluated performance of different CNN architectures on various datasets.

Human Action Recognition from Videos

Undergrad Project, SSN College of Engineering, Chennai

Dec 2016 - April 2017

Worked under Dr. N. Venkateswaran, on identifying actions from videos, using CNN architectures.
 Designed a novel feature descriptor leveraging CNNs and classical Computer Vision approaches, and inspected performance. Gained exposure to video analysis, and popular frameworks like OpenCV, and Keras.

PROJECTS

- RiskyClickerBot: Python based content moderation system for Reddit, to detect harmful images and videos built with Clarifai API.
- Rubik's Cube Solver: Python program to generate optimal solutions given photos of the Rubik's cube.