

EDUCATION

University of Massachusetts Amherst	Amherst, MA
College of Information and Computer Sciences	Expected Graduation May 2021
Master of Science in Computer Science	
Shivaji University	Kolhapur, India
Bachelor of Technology in Computer Science and Engineering. GPA: 3.86/4.00	Jul 2012 - May 2016
Awarded Certificate of Merit and Scholarship	

EXPERIENCE

Software Development Engineer	Research Centre Imarat, Hyderabad	Apr 2018 – Nov 2018
Research Project		
<ul style="list-style-type: none">Developed a Python program that increased the frames captured per second(fps) on Raspberry Pi 3 by 370%Created a dataset from Terabytes of Infrared and RGB image data for object detection and tracking by using suitable preprocessing, synchronizing, and annotation used by over 5 teamsCreated RESTful Web Application using the Python-Flask framework for deploying Caffe modelDeveloped Linux device driver for the Nvidia Jetson TX2 platform, for interfacing with a custom camera		
Software Engineer	Persistent Systems, Pune	Nov 2016 – Feb 2018
Forex Settlement and Netting		
<ul style="list-style-type: none">Developed a Java tool used by over 50 testers to orchestrate real-world FOREX transactionsPrototyped Test-Driven Development System which performed Full-Stack regression testing using Jenkins, Appium, RestAssured, Junit, Maven and Selenium Grid that led to the adoption of CI/CD in the projectMigrated existing XML over HTTPS inter-process communication to Message Queue for improved fault tolerance and scalability over a large amount of transactional test dataRefactored test scripts to run using Selenium Grid for distributed and concurrent execution of test cases achieving a reduction in the test effort by 48%		
Python Consultant, Intern	Harman International, Pune	Sep 2016 – Nov 2016
<ul style="list-style-type: none">Developed Python interface to replace legacy commands in a leading 3D modeling software. Used profiling and foreign function interfacing for interfacing and improving performance		

PROJECTS

Indoor Scene Classification using Scene Parsing and NLP	Oct 2019 – Ongoing
Improving classification accuracy of a scene by using context-based word embeddings for objects, parts, materials, and texture retrieved from the scene image	
Evaluation of Energy-Efficient Devices and CNN Architectures for Real-Time Inference bit.ly/2kvv2En	Oct 2018 – Jul 2019
Independent Research Project	
Determined suitable CNN architectures and embedded devices (Intel Movidius, Jetson Tx2, Raspberry Pi) for detection/classification at more than 24FPS, consuming lesser watts per fps	
Dustbinator: A waste sorting receptacle using deep learning	Jul 2015 – Mar 2016
Undergraduate Course Project (<i>Best Project, University Level</i>)	
Developed an image classifier with 89% validation accuracy using Caffe framework, to classify an image of trash as biodegradable or non-biodegradable for five common categories using transfer learning	
Licence Plate recognition using Raspberry Pi bit.ly/2mo6AoQ	Jul 2016 – Aug 2016
Prototyped license plate recognition system using Google Vision API and Python Regular Expressions	

TECHNICAL SKILLS

- Python (3 years), Java (4 Years), SQL (4 Years), Linux (3 years), C++, GIT