

Sairam Tabibu

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Summary of Qualifications

Software and Languages: Python, C++, C, R, Matlab, Latex

Embedded Platforms: Raspberry Pi, Arduino

Packages and Framework: Pytorch, Keras, Tensorflow, Numpy, Scikit-learn, OpenCV, MatConvnet

Certifications: Deeplearning.ai, Data Structures and Algorithms by Udacity

Interests: Computer Vision, Machine Learning, Deep Learning

EDUCATION

University of Washington, Seattle — UW College of Engineering, Seattle, WA

Master of Science in Electrical and Computer Engineering

Sept.. 2019 – Mar. 2021 (expected)

Selected coursework - Intro to Artificial Intelligence for mobile robots, Machine Vision, Machine Learning

Indian Institute of Technology(BHU), Varanasi, Varanasi, India

Bachelors of Technology in Electronics Engineering

Jul. 2013 – May. 2017

WORK EXPERIENCE

Great Learning, Bangalore, India

Mentor, Deep Learning Certificate Program

Nov. 2018 – May. 2019

- Mentoring working professionals and grading of Computer vision and Deep learning assignments in Keras and OpenCV.

IIIT, Hyderabad, Hyderabad, India

Research Fellow

Nov. 2017 – Mar. 2019

- Worked on Histopathological Analysis of Kidney Carcinoma images to detect Cancer and its sub types and predicting the survival outcome using Deep Learning. [research paper](#)
- Built a Directed Acyclic graph based SVM model to deal with Data Imbalance.
- Developed a survival prediction sys. using a COX Regression model trained on the features extracted from the Deep Net.

NTU, Singapore, Singapore

Research Intern

May. 2016 – Jul. 2016

- Worked on Detecting and tracking ships, boats, frigates using IR cameras along the Singapore coastline with every possible variation in orientation, shape, distance and surrounding effects. [Report](#)
- Implemented Selective search method (Method to generate object locations based on location, shape, color) in Matlab to get probable Bounding boxes.
- Used VGG nets using the MatConvnet toolkit to extract features and SVM for classification.

Changwon National University, South Korea, Changwon, South Korea

Research Intern

Nov. 2017 – Mar. 2019

- Worked on Improving and implementation of Real time face recognition algorithm on Embedded systems such as Raspberry Pi to be deployed as a low cost product. [presentation](#)
 - Used OpenCV tools to extract Local derivative patterns from face and tested for various transforms such as DCT etc. to bring Illumination invariance.
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RESEARCH PROJECTS

Hand gesture Recognition on Indian Sign language

Guide: Dr. Kishor Sarwadekar, Assistant Professor, IIT BHU

Dec. 2016 – May. 2017

- Implemented a hand segmentation algorithm based on skin color.
- Implemented a Neural Network to recognise the Hand Gesture.

Lexical and visual analysis of social media posts

Guide: Dr. Erik Cambria

Jan. 2017 – Apr. 2017

- Project involved understanding the sentiment that a person elicits on different posts present on different social media sites.
- Proposed a method to extract hand crafted features (both verbal and visual features) and used Logistic Regression and Random forest for classification. [research paper](#)

Multimodal analysis for deception detection

Guide: Dr. Erik Cambria

Sep. 2016 – Dec. 2016

- Proposed a data-driven method for automatic deception detection in real-life trial data using visual and verbal cues.
 - Used OpenFace toolkit to extract the visual cues and Opensmile toolkit to extract verbal cues.
 - Used SVM on top of these features for classification. [research paper](#)
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