

EDUCATION

Arizona State University

Master of Science in Electrical Engineering; GPA 3.79

Tempe, Arizona

August 2011–May 2013

Sir M Visvesvaraya Institute of Technology

Bachelor of Engineering in Electronics and Communication; GPA:4.00

Bangalore, India

September 2007–July 2011

Udacity

Machine Learning Nanodegree

August 2016–September 2017

EXPERIENCE

Qualcomm

Senior Software Engineer

Boxborough, Ma

October 2016–Present

Developing firmware for the physical layer of Wireless LAN chips(Wifi 802.11 protocol).

NXP

Applications Software Engineer

Chandler, Az

June 2013–October 2016

Developed applications for Power Amplifier characterization on a Vector Signal Processor.

Center for Evolutionary Medicine and Informatics, The Biodesign Institute

Research Aide

Tempe, Az

July 2012–May 2013

Machine learning algorithm development and implementation for Bioinformatics.

RESEARCH PROJECTS

Properties of Winning Tickets on Skin Lesion Classification

Investigated the behaviour of Lottery Ticket Hypothesis on subgroups based on age and gender in the ISIC dataset using Pytorch.

Gene expression pattern annotation

Implemented Gene expression pattern annotation using SIFT feature extraction on embryonic images in the Berkeley Drosophila Genome Project (BDGP) using Bag of Words and sparse Coding Approach.

SKILLS

Python, C, C++, Perforce, Git, Matlab, Embedded Systems, Signal Processing, Machine Learning, Keras, sklearn, Data Analysis, Software development, Pytorch, Tensorflow

PUBLICATIONS

- [1] S. Muckatira, “Properties of winning tickets on skin lesion classification”, *ECCV WiCV Workshop*, 2020.
- [2] Q. Sun, S. Muckatira, L. Yuan, S. Ji, S. Newfeld, S. Kumar, and J. Ye, “Image-level and group-level models for drosophilagene expression pattern annotation”, *BMC bioinformatics*, vol. 14, no. 1, p. 350, 2013.