Sherin Muckatira

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Education

Arizona State University   Tempe, Arizona
Master of Science in Electrical Engineering; GPA 3.79   August 2011–May 2013

Sir M Visvesvaraya Institute of Technology   Bangalore, India
Bachelor of Engineering in Electronics and Communication; GPA:4.00   September 2007–July 2011

Udacity
Machine Learning Nanodegree   August 2016–September 2017

Experience

Qualcomm   Boxborough, Ma
Senior Software Engineer   October 2016–Present

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

NXP   Chandler, Az
Applications Software Engineer   June 2013–October 2016
Developed applications for Power Amplifier characterization on a Vector Signal Processor.

Center for Evolutionary Medicine and Informatics, The Biodesign Institute   Tempe, Az
Research Aide   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.