Sherin Muckatira

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Education

University of Massachusetts — Lowell, Massachusetts
Ph.D. in Computer Science; GPA 4.00 — September 2021–Present

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

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.

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 drosophila gene expression pattern annotation", *BMC bioinformatics*, vol. 14, no. 1, p. 350, 2013.

Experience

Qualcomm — Boxborough, Ma
Senior Software Engineer — October 2016–December 2021
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.

Skills

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