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# MAHESH S. BHOSALE

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www.bhosalems.github.io/

## TECHNICAL SKILLS

- **Languages:** C++, Python, C, Shell, R (Novice)
- **Libraries:** Pytorch, Fast.ai, TensorFlow, Scikit-learn, NumPy, Pandas, Django, Octave, Anaconda, AWS.
- **Tools:** Pycharm, Jupyter, MS suite, VIM, System-tap, crash (core dump analysis), gdb.
- **Databases:** MySQL

## EDUCATION

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|---|---|---|
| **University at Buffalo SUNY** | **Master's in computer science** | **Aug 2021 – Dec 2022** |

- Specializing in Artificial Intelligence.

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| **Walchand college of engineering, Sangli** | **Bachelor of Technology, Information Technology** | **Jul 2013 – Jul 2017** |

- Secured GPA of 3.7/4.0.
- Awarded Honorable mention ACM ICPC 2015 Regionals, Amritapuri.
- Awarded Runner-Up Best project award 2014 (75 Participants), IT department, WCE, Sangli.
- Awarded First Runner-Up Mindspark - A coding competition (500 participants), College of engineering, Pune.
- Awarded Second Runner-Up Bleed-code Hacker-Earth programming challenge.

## EMPLOYMENT

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| **Graduate Teaching Assistant** | **University at Buffalo** | **Jun 2022 – Aug 2022** |

- Working with Dr. David Doermann in helping students in the programming part of CSE 702 Automated Analysis of Sporting Event Videos.

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| **Graduate Teaching Assistant** | **University at Buffalo** | **Feb 2022 – May 2022** |

- Working with Dr. Ghanei helping students of CSE 4/521 Operating systems in the Pintos projects.

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| **Engineering Intern** | **Veritas Technologies, LLC** | **Jan 2017 – Jun 2017** |

- Improved some of the internal algorithms, used to read directory entries in context of any variant of "ls" command on the platform RHEL Server release 6.7 (Santiago).

## PROJECTS

- **Reidentification SoccerNetv3 (2022)** - Soccer player reidentification using two stream (RESNET + sub-network of OpenPose) deep neural network using layer wise triplet similarity. Used Bilinear pooling to compute rich features from pose features and appearance features from each stream.
- **Breast Cancer Detection (2022)** – Modelled SOTA methods such as VGG-19, RESNET-50, Vision Transformer, External Attention Transformer etc. and evaluated the performance of these methods on Breast Mammograms datasets – INBreast and DDSM.
- **Panorama Stitching (2021) -** Used SIFT features to find the correspondence and homography matrix between two view images using RANSAC algorithm.
- **IDLEBOT (2018-2020)** - Recommending optimal time slot for execution of resource intensive tasks in Veritas product portfolio using LSTM. Proposed novel "Weighted time-slot selection algorithm" to select an optimal slot, achieved 56% reduction in exec. time.
- **Music Genre classifier (2018)** – Classifying genres of audio files from GTZAN dataset. Compared performance of logistic regression, SVM, RNN on metrics of accuracy and f1 score.
- **Improvement of Naïve Bayes classifier for SPAM filtering (2017)** - Association rule mining was used to increase accuracy, as conditional independence assumption of Naïve Bayes seems unconscionable.

## CERTIFICATIONS/ONLINE COURSES

- EDX Honor of code Introduction to R programming by Data Camp Microsoft.
- Practical Deep Learning for Coders, Part 1 and Part 2 fast.ai.
- Introduction to Machine learning by Andrew NG Coursera.

## VOLUNTARY EXPERIENCE

- Contributed to open-source repository: (CLTK) Classical Language Tool Kit.
- Organized IMPULSE 2015, A University level technical event, Student's Organization For Technical Activities