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## TECHNICAL SKILLS

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

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## EDUCATION

<b>University at Buffalo SUNY</b>	<b>Master's in computer science</b>	<b>Aug 2021 – Dec 2022</b>
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- Specializing in Artificial Intelligence.

<b>Walchand college of engineering, Sangli</b>	<b>Bachelor of Technology, Information Technology</b>	<b>Jul 2013 – Jul 2017</b>
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- 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.

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## EMPLOYMENT

<b>Graduate Teaching Assistant</b>	<b>University at Buffalo</b>	<b>Jun 2022 – Aug 2022</b>
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- Working with Dr. David Doermann and Dr. Nalini Rath in helping students in the programming part of CSE 702 Automated Analysis of Sporting Event Videos.

<b>Graduate Teaching Assistant</b>	<b>University at Buffalo</b>	<b>Feb 2022 – May 2022</b>
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- Working with Dr. Ghanei helping students of CSE 4/521 Operating systems in the Pintos projects.

<b>Software Engineer</b>	<b>Veritas Technologies LLC</b>	<b>Jul 2017 – Jun 2021</b>
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- Presented a paper at ILLUMINATE-2020, Veritas's annual technical conference, named IDLEBOT - predictive execution of resource-intensive tasks. Bestowed Certificate of Merit 2020.
- Proposed a project: Ransom-ware Detection in Veritas's File-system in Veritas's annual Hackathon, 2021.
- Presented IDF to Patent Filter Committee for IDLEBOT and Ransom-ware detection.
- Solved high-priority customer escalations for Veritas File system. Debugged in kernel and user mode on RHEL, SLES, Solaris and AIX platforms.

<b>Engineering Intern</b>	<b>Veritas Technologies LLC</b>	<b>Jan 2017 – Jun 2017</b>
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- Improved some of the internal algorithms, used to read directory entries in context of any variant of "ls".

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## 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.

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## 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.