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EDUCATION

The Ohio State University, Columbus — Expected graduation: May 2017
M.S. Computer Science and Engineering — GPA: 3.76 (4.0 scale)

Birla Institute of Technology and Sciences, Pilani — Graduation: June 2015
B.E. Electronics and Instrumentation Engineering — GPA: 8.08 (10.0 scale)

SOFTWARE SKILLS

C, C++, Python, Java, JSP, SQL, HTML, Qt, MATLAB, Tableau

WORK EXPERIENCE

Student Programming Assistant: January 2016 - present
Computational Biology and Cognitive Sciences Lab, Ohio State University, Columbus
- Helping lab members with their existing work
- Writing code to interface with projects (C++,MATLAB)

ACADEMIC PROJECTS

Evolution of Music over the years using Word-Clouds, February 2016
- Extracted the lyrics of top 100 chart songs over years(1961-2015) and using word-cloud showed the trend of most common words used in music lyrics over the years, Python,D3

Classification of IMDb movie reviews, January 2016
- Implementing and analyzing the performance of classification algorithms such as Naïve Bayes (82% Acc.) and Perceptron (87% Acc.), for the purpose of text classification of IMDb reviews as positive and negative, Python

Interpreter for Modified LISP, August 2015 – December 2015
- Developed an interpreter to do parsing, check for syntactic and type errors and evaluation of S-expressions, in C++

Detecting Non-Coding RNAs(ncRNAs) in Biochemical Screening, October 2015 – November2015
- Used SVM (RBF kernels, (94% accuracy)) to detect if a genomic sequence is ncRNA, C++
- Cross-validates to check for parameters for best accuracy

Design of Visual Cryptography Techniques, August 2014 – December 2014
- Worked on developing an improved secret sharing scheme for visual cryptography, with the help of mathematical analysis and MATLAB simulations

INTERNSHIPS

Center for Artificial Intelligence and Robotics, DRDO, Bangalore
Project Intern: January 2015 – June 2015
- Developed a consolidated utility to track multiple objects in multiple networked cameras in real-time
- Used image processing techniques; developed using C++, openCV and Qt
- Features included: handshaking between multiple camera views for consistent object labeling, auto-initialization of the TLD (tracking-learning-detection) tracker using GMM based motion detector

Center for Railways Information System, New Delhi
Summer Intern: May 2014 – July 2014
- Developed Java-based job portal web application using JSP, servlets, implemented using the Struts2 framework
- Analyzed data security measured used the IREPS website, such as Public Key Infrastructure