

Abhinav Moudgil

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EDUCATION	International Institute of Information Technology , Hyderabad, India B.Tech and M.S. in Electronics and Communication Engineering • Adviser: Prof. P J Narayanan, <i>Director, IIIT-H</i> • Research areas: Computer vision, Machine Learning. • Cumulative GPA: 7.96 / 10.0 (4 semesters)	Aug 2013 – Jul 2018
INTERESTS	Machine Learning, Data Mining, Computer Vision, Algorithms	
EXPERIENCE	International Institute of Information Technology , Hyderabad Teaching Assistant Course: Science 1 Center of Visual Information Technology , IIIT Hyderabad Undergraduate Researcher Robosapiens Technology , Winter Trainee Robotics and Embedded C	Aug 2015 – Dec 2015 May 2015 – Present Nov 2014 – Dec 2014
PROJECTS	Intrusion Detection System Course: Statistical Methods in AI (CSE471) • Aims to detect malicious attacks in network from logs. • Used classification models: SVM, Neural Network, Decision trees, Ensembling to build the classifier. • Implemented <i>fast feature reduction</i> technique to significantly reduce execution time. • Performance analysis on KDD CUP 1999 and HTTP CSIC 2010 dataset. Multi-Camera Synchronization Honours Project I • Synchronized multiple phones under same wireless network within 10ms using GPS. • Manual control of camera parameters using new Android Camera 2 API. • Explored the ongoing research and studied various research papers in this field. 16 Bit Simple Processor Course: Electronics Workshop 2 (ECE291) • Implemented 8 basic instructions like mov, add, branch, compare etc. • Design consisting of 8 registers, ALU and FSM control unit. • Coded in Verilog and tested on Spartan 3E FGPA. • Timing diagram analysis using Xilinx ChipScope Pro software. Mobile Controlled Robot Course: Electronics Workshop 1 (IEC104) • Built a GSM Mobile Controlled Robot using basic logic circuit and DTMF Decoder.	Sep 2015 – Dec 2015 Jun 2015 – Dec 2015 Aug 2014 – Dec 2014 Jan 2014 – Apr 2014
ACADEMIC HONORS & AWARDS	National Talent Search Examination, NCERT Delhi Shortlisted among top 0.01% high school students from all over India. O(logN) Programmer, HackerRank Handle: codeaholics, Current Rating: 2488 National Science Olympiad, Science Olympiad Foundation (SOF) Secured All India Rank 196 out of 45k+ participants in final round.	2009 2014 2010
TECHNICAL SKILLS	Languages (Proficient): C, C++(with STL), MATLAB, Python, Verilog Operating Systems: OS X, GNU/Linux, Windows Softwares: Xilinx ISE Design Webpack, Altera ModelSim, NI Multisim, AVR Tools/Libraries: Numpy, Scikit, Git, Bash, Vim, \LaTeX	
COURSEWORK	Artificial Neural Networks*, Statistical Methods in AI, Digital Image Processing, Computer Programming, Data Structures, Mathematics I, II, Probability and Random Processes, Computer System Organization, Digital Logic and Design, IT Workshop I, Science 1, Digital Signal Processing, Signal and Systems, Embedded Hardware Design, Electronics Workshop I, II	