



RISHABH JOSHI

Course : B.E. (Hons.), Computer Science

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CGPA : 9.16



ACADEMIC DETAILS

COURSE	SPECIALIZATION	INSTITUTE/COLLEGE	BOARD/UNIVERSITY	% CGPA	YEAR
X	General	The Mother's International School	CBSE	95	2012
XII	Science	The Mother's International School	CBSE	95.6	2014

ELECTIVES/TECHNICAL PROFICIENCY

Electives	Neural Net And Fuzzy Logic, Information Retrieval, Parallel Computing, Computer Graphics, Pattern Recognition, Effective Public Speak, Creative Thinking, Srimad Bhagavad Gita
Technical Proficiency	C, C++, Python, x86Assembly, Prolog, R, Racket, MySQL, OpenGL, Matlab

SUMMER INTERNSHIP/WORK EXPERIENCE

Indian Institute of Remote Sensing (ISRO), Dehradun	May 2016 - Jul 2016
<ul style="list-style-type: none">Developed the DataCube for Uttarakhand using GeoSpatial Technologies for IIRSDetermined the best GIS image storage formats for storing GBs of satellite image data, for effective storage/retrieval and analysisDeveloped the core API and Execution engine with algorithm templates for easy product generation on web portal	
Samsung R&D Institute, Bangalore	May 2017 - Till Present
<ul style="list-style-type: none">Automated the process of generating and debugging 5G packets by creating an interactive GUIThe packet generator generates 5G packets based on user inputs and is then used to test the protocol stack	

PROJECTS

BITS LifeGuard	Nov 2015 - Till Present
<ul style="list-style-type: none">Worked with Dr. Rahul Banerjee to develop a fault-tolerant, cost-effective smart driver safety jacket with monitoring of vital signs to prevent accidents.Currently working on adaptive learning aspects of body sensor networks for Sensor FusionWorked on finding and implementing accurate sensor fusion algorithms to classify driver reflex degradation	
Distance Iris Recognition	Jan 2017 - May 2017
<ul style="list-style-type: none">Worked with Dr. Kamlesh Tiwari on creating a biometric Iris Recognition solution for Low Quality Distance Iris ImagesUsed Haar Cascade Classifiers for eye segmentation followed by thresholding and occlusion removalGabor filters and Hamming Distance were used for normalization and matching	
Mini Projects	Aug 2016 - Till Present
<ul style="list-style-type: none">PSO Optimized K-Means - Studied and implemented Particle Swarm Optimization to improve clustering performance of K-MeansHeading Generation using Speech Phonetics - Created a crawler to obtain clean speech audio and generated a summary and its heading using phonetics and tone of the speakerParallel BranchAndBound - Implemented a parallel skeleton for BranchAndBound to solve TSP and Knapsack	

POSITION OF RESPONSIBILITY

Teaching Assistant, Data Structures and Algorithms	Jan 2017 - May 2017
<ul style="list-style-type: none">Helmed two lab sections and was Jury for the Online Judge with the responsibility of assisting 200+ students	
Executive Coordinator, Embryo Club	Apr 2016 - Apr 2017
<ul style="list-style-type: none">Responsible for handling all the finances of the club, increasing the amount from 20,000 to 1,80,000Organized an Oasis Talk by Amish Tripathi handling all expenses and negotiations	
Joint Activities Coordinator, ACM BITS Chapter	Aug 2015 - Aug 2016
<ul style="list-style-type: none">Responsible for all the activities of ACM throughout the year, successfully conducting more than 8 eventsOrganized ICL and Checkmate in APOGEE with a participation of 500+	

ACHIEVEMENTS AND AWARDS

<ul style="list-style-type: none">Secured 1st position in campus ML Hackathon organized by MapMyIndia on Kaggle in APOGEE 2017Secured 2nd position in E-Yantra, a robotics competition organized by MHRD and IIT-B 2016National Finalist in Microsoft's Build The Shield CTF competition 2016Recipient of Institute Merit Scholarship for academic excellence 20151574 - All India Rank (AIR), IIT-JEE 2014Recipient of Govt. Of India, Inspire Scholarship (top 1% in CBSE) 2014Board Topper in Chemistry, CBSE (100/100) 2014School Topper in Computer Science, CBSE (99/100) 2014Junior Science Talent Search (JSTS) Scholar, Dept. of Science, Govt. of India 2012	
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EXTRA CURRICULAR ACTIVITIES

<ul style="list-style-type: none">Volunteer for National Service Scheme, BITS Pilani Chapter (Aug'14 - Present), taught Computers to people in Pilani and nearby villages
