

RISHABH JOSHI

Course : B.E. (Hons.),Computer Science Email : f2014102@pilani.bits-pilani.ac.in

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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 Networks and Fuzzy Logic, Information Retrieval, Parallel Computing, Computer Graphics, Pattern Recognition, Effective

Public Speaking, Creative Thinking, Srimad Bhagavad Gita

Technical Proficiency C, C++, Python, Assembly, Prolog, Racket, MySQL, OpenGL

SUMMER INTERNSHIP/WORK EXPERIENCE

Samsung Research Institute, Bangalore

Jun 2017 - Jul 2017

- Worked on the Data Link Layer for 5G network as part of the Communications Protocol Team
- Created tools to aid in 5G packet generation and testing for MAC, RLC and PDCP sub-layers (focus on RLC)

Indian Institute of Remote Sensing (ISRO), Dehradun

May 2016 - Jul 2016

- · Worked on DataCube, an analytical framework to provide an effective storage, retrieval and analysis of large earth observation datasets
- Determined the best GIS image storage formats for storing temporal satellite data
- Developed the core API and execution engine with algorithm templates for product generation

PROJECTS

BITS LifeGuard - Wearables, Pervasive and Network Research Lab

Nov 2015 - Till Present

- Worked as a Research Assistant with Dr. Rahul Banerjee to develop a fault-tolerant, cost-effective smart driver safety jacket to prevent road accidents.
- Currently working on adaptive learning aspects of body sensor networks for Sensor Fusion
- · Worked on finding and implementing accurate sensor fusion algorithms to classify driver reflex degradation

Distance Iris Recognition Jan 2017 - May 2017

- · Worked with Dr. Kamlesh Tiwari on creating a biometric Iris Recognition solution for Low Quality Distance Iris Images
- Used Haar Cascade Classifiers and Histogram of Oriented Gradients(HOG) for eye segmentation followed by thresholding and occlusion removal
- · Used Gabor filters and Hamming Distance for normalization and matching of the Iris Codes

Mini Projects Aug 2016 - Till Present

- · PSO Optimized K-Means Studied and implemented Particle Swarm Optimization to improve clustering performance of K-Means
- Heading 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 speaker
- Parallel 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

· 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

- Responsible for handling all the finances of the club, increasing the amount from 20,000 to 1,80,000
- Organized an Oasis Talk by Amish Tripathi handling all expenses and negotiations

Joint Activities Coordinator, ACM BITS Chapter

Aug 2015 - Aug 2016

- · Responsible for all the activities of ACM throughout the year, successfully conducting more than 8 events
- Organized ICL and Checkmate in APOGEE with a participation of 500+

ACHIEVEMENTS AND AWARDS

- Secured 1st position in campus ML Hackathon organized by MapMyIndia on Kaggle in APOGEE | 2017
- Secured 2nd position in E-Yantra, a robotics competition organized by MHRD and IIT-Bombay | 2016
- National Finalist in Micorsoft's Build The Shield CTF competition | 2016
- Recipient of Institute Merit Scholarship for academic excellence | 2015
- 1574 All India Rank (AIR), IIT-JEE | 2014
- Recipient of Govt. Of India, Inspire Scholarship (top 1% in CBSE) | 2014
- Board Topper in Chemistry, CBSE (100/100) | 2014
- School Topper in Computer Science, CBSE (99/100) | 2014
- Junior Science Talent Search (JSTS) Scholar, Dept. of Science, Govt. of India | 2012

EXTRA CURRICULAR ACTIVITIES

• Volunteer for National Service Scheme, BITS Pilani Chapter (Aug'14 - Present), taught Computers to people in Pilani and nearby villages