

EDUCATION

- **Bachelor of Engineering (Honors), Electronics and Instrumentation**
Birla Institute of Technology and Science, (BITS-Pilani) *Graduated, 2014 with DISTINCTION*,
Cumulative Grade Point Average: 9.2/10
- **All India Senior Secondary Examination Central Board of Secondary Education**
Bhatnagar International School, New Delhi, 2010
Passed with 91.2%; (Physics, Chemistry and Mathematics: 96%, School rank 1st)
- **Central Board of Secondary Education Higher Secondary**
Bhatnagar International School, New Delhi, 2008
Passed with 93.5% (100% in Mathematics, School rank 1st)

Major Research Interests

- Machine Learning, Natural Language Processing, Data Structures and Algorithms, Artificial Intelligence, Pattern recognition, Information Extraction, Gesture Recognition

RESEARCH & WORK EXPERIENCE

- **S&P Capital IQ, division of McGraw Hill Financial** 04/2015- 09/2015
Data Scientist II (Machine Learning, Natural Language Processing, Information Retrieval)
- **Jaarwis Technology Group.**
Software Engineer (Machine Learning, Server Programming, Server system design) 06/2014- 03/2015
- **Centre for Applied Research in Electronics (CARE), Indian Institute of Technology,(IIT) Delhi**
Bachelor Thesis: *Making scalable models based on target strength for underwater target classification.* 01/2014 – 06/2014
- **University of Alberta, Canada** 05/2013 – 08/2013
Research Intern
Project: Image Reconstruction from CMUT (MEMS) sensors.
- **Indian Institute of Remote Sensing(IIRS) , Dehradun** 05/2012 – 08/2012
Research Intern
Project title: Software Development of Image Fusion Using Wavelet transform algorithm.

PROJECTS

- **Optimization of Machine Learning algorithms for real world data sets**
Mentor: Dr. Jajati Keshari Sahoo, Assistant Professor Department of Mathematics
BITS Pilani-K.K Birla Goa Campus 08/2013 – 12/2013
- **Feedback Form analyzer: Automatic data acquisition and interpretation of feedback forms.**
Mentor: Professor Bharat M. Deshpande, Head of Department of Computer Science
BITS Pilani-K.K Birla Goa Campus 08/2013 – 12/2013

Patents

System, Method and Software for Classifying Documents. (Patent Pending)

Zheng Chen, S&P Capital IQ ,V Ranjan Kumar Patra S&P Capital IQ ,Bhargav Uppalapu S&P Capital IQ , Abdul Khan S&P Capital IQ , Deepak Rishi

Journal Publications:

- Sahoo, J. K., Deepak Rishi. “*Speaker Recognition Using Support Vector Machines*”. International Journal of Electrical, Electronics and Data Communication (IJEEDC)(Vol. 2 Issue 2)
- Chee, R.; Sampaleanu, A.; Rishi, D.; Zemp, R. “*Top Orthogonal to Bottom Electrode (TOBE) 2D CMUT Arrays for 3D Photoacoustic Imaging*”. IEEE TUFFC journal (Volume:61, Issue: 8)

Conference Publications

- Zemp, R.J. ; Chee, R. ; Sampaleanu, A. ; Rishi, D. ; Forbrich, A. “*S-Sequence Bias-Encoded Photoacoustic Imaging with Top Orthogonal to Bottom Electrode (TOBE) CMUT Arrays*”. IEEE International Ultrasonics Symposium (IUS) 2013, Prague.
- Kshirsagar, A.; Chee, R.; Sampaleanu, A.; Forbrich, A.; Rishi, D.; Moussa, W. ; Zemp, R.J. “*Multi-Frequency CMUT Arrays for Imaging-Therapy Applications*”. IEEE International Ultrasonics Symposium (IUS) 2013, Prague.
- Sahoo, J. K., Deepak Rishi. “*Speaker Recognition Using Support Vector Machines*”, International Conference on Advanced Computer Science and Information Technology, 5th January 2014, Mumbai.

SKILLS:

Proficient in the use of –

- **Simulation Software:** Capture CIS, Cadence, PSpice, Xilinx ISE, AutoCAD, Lab VIEW
- **Package Software:** MATLAB, Arduino
- **Platforms:** Windows, Linux
- **Programming Languages:** C, C++, Java, Python, JavaScript, CSS, MASM, Verilog HDL

TEACHING

- **Machine Learning Course at Center for Technical Education, BITS Pilani Teaching** 08/2013 – 12/2013
Assistant for Professor Bharat Deshpande

ACADEMIC ACCOMPLISHMENTS

- Selected for prestigious **DAAD scholarship under WISE Program** (Working Internship in Science & Engineering) University of Kiel, Germany for the year 2013.
- Awarded the prestigious **MITACS Globalink** International Research scholarship for research internship in University of Alberta, Canada respectively for the year 2013.
- Awarded the Institute Merit Scholarship for six semesters (August 2010 – August 2013). (This covers reimbursement of full tuition fees for top 10 students of each semester).
- Branch topper in Circuits and Signals(overall rank second),Mechanics of Solids(overall rank first),University rank second in Mathematics III(Differential equations), Mathematics II[Linear Algebra] and Mathematics I (Calculus)
- Bronze medal in Manav Sthali National Mathematics Talent Test 2009.
- All India rank 219 in National Cyber Olympiad 2009.

- Distinction in courses Data Structures and Algorithms and Software Development in Java from National Institute of Information Technology in 2013.

EXTRACURRICULAR ACTIVITIES

- Cofounder/Head Center for Technical Education: An official department started for teaching courses outside the scope of the curriculum like Machine Learning, Robotics, Computer Vision and Web design and development. <http://cte.bits-goa.com/>