

ARCCHIT JAIN

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EDUCATION

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| 2017 | Pre-Doctoral Programme, Computer Science, KU Leuven , Belgium | |
| 2015 | Integrated Master of Science, Mathematics and Scientific Computing Indian Institute of Technology Kanpur , India | CGPA: 8.0/10.0 |
| 2010 | Class 12, Central Board of Secondary Education (CBSE) | 93.6% |
| 2008 | Class 10, Central Board of Secondary Education (CBSE) | 95.6% |

EMPLOYMENT EXPERIENCE

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| PhD Candidate, Logic and Learning in Automated Data Science, KU Leuven | Feb 18 - Jan 21 |
| Prof Luc De Raedt , Artificial Intelligence, Computer Science, KU Leuven, Belgium | ProbLog, Python, C++ |
| <ul style="list-style-type: none">- Developed a fast and scalable probabilistic rule learning system, SafeLearner, based on Lifted Inference- Introduced a CNF learning system, Mistle, based on Predicate Invention and the MDL Principle- Actively contributed to the development of ProbLog, a probabilistic logic programming language- Upgraded the parameter learning system (LFI) in ProbLog so it could learn for any probabilistic clause- Explored the topics of Gaussian Processes, Probabilistic Action Model Learning and Planning- Contributed in the development of an AI based auto-completion tool of MS-Excel for the SYNTH project- Tutored a course, Uncertainty in AI, to students enrolled in Masters in AI and CS programs for 3 years | |
| Credit Risk Analyst, Risk and Information Management, American Express, Gurgaon | Jul 15 - Apr 17 |
| <ul style="list-style-type: none">- Developed Gradient Boosting Machine based Credit Risk Models for 22 countries with impact of \$ 7M- Responsible for quarterly tracking of models for EMEA and weekly tracking of 243 modeling variables- Pioneered automated defaulter tool that queries data from Teradata, scores model to generate Excels- Analyzed credit bureau data of Canada to enhance payment information in 37 variables on SAS- Recieved Reward Blue Award (Top 3 in a team of 20) for exemplary team work and problem solving skills | |

CONFERENCES

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| 2019 | Gave spotlight and poster presentation on Scalable Rule Learning in Probabilistic Knowledge Bases at the 1 st conference on Automated Knowledge Base Construction in University of Massachusetts, USA |
| 2015 | Selected among top 50 students from India to Summer School on Applied Mathematics organized by Indo-French Centre for Applied Mathematics at Indian Institute of Science (IISc), Bangalore, India |
| 2015 | Selected by Head of Department, Department of Mathematics and Statistics, IIT Kanpur to attend the 2 nd IKDD Conference on Data Science organized by ACM SIGKDD in Bangalore, India |
| 2015 | Selected among 450 students for Harvard US India Initiative (HUII) Conference on Developmental Initiatives |
| 2010 | Attended Vijyoshi Camp by KVPY program, Department of Science and Technology at IISc, Bangalore |

ACADEMIC ACHIEVEMENTS

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| 2016 | Certified by Institute of Actuaries of India for 'Financial Mathematics' and 'Probability and Statistics' |
| 2012 | Received fellowship by Summer Research Fellowship Programme by Indian Academy of Science |
| 2010 | Fellow of Kishore Vaigyanik Protsahan Yojana (KVPY) , awarded to top 125 aspiring scientists across India by Department of Science and Technology (DST) and Indian Institute of Science (IISc), Bangalore |
| 2010 | Attained 99.4 Percentile (among 472,000) in Joint Entrance Examination for admission into IIT Kanpur |
| 2010 | Secured All India Rank of 535 (among 1.1 million) in All India Engineering Entrance Examination (AIEEE) |
| 2009 | Placed among State-wise Top 1 Percentile in National Science Examination in Physics |
| 2008 | Awarded Merit of 0.1 percentile from CBSE Board for scoring 100% marks in French in Class 10 |

Prof. G.P. Kapoor, Mathematics | Prof. Sumana Gupta, Electrical Engineering, IITK MATLAB, Mathematica

Risk and Information Management, American Express, Gurgaon, India SAS

- X-Ray focal spot deblurring using Coded Aperture Imaging May-Jul 2013

- Created a framework in MATLAB to model blurring due to extended focal spot in X-Ray machines

Mentor: Prof. Amit Mitra, Statistics, IIT Kanpur Python

- Generalized Equalization Model for Image Enhancement Oct 2014

- Implemented White Balancing and Contrast Enhancement using Histogram Equalization technique

- Time Series Analysis of Kanpur's Temperature using Box-Jenkins Method Aug-Nov 2013

- Fitted **S-ARIMA model** on 50 years' monthly temperature series and estimated parameters by residual plots

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| 2016 | GRE | 322/340 | | Quantitative Reasoning 170/170 | | | | | Verbal Reasoning 152/170 | | | | | |
| 2016 | TOEFL | 105/120 | | Reading | 28/30 | | Listening | 26/30 | | Speaking | 23/30 | | Writing | 28/30 |

EXTRA CURRICULAR ACHIEVEMENTS

- 2013 Selected among top 30 out-of 500 teams in Manthan, India's largest youth movement, for analyzing solutions for Universalising Access to **Quality Primary Healthcare** in India
- 2013 Stood 2nd in **Siemens Intern Tech Challenge** for designing SMART food adulteration kit
- 2012 Voted 2nd most popular app for a price comparison web app in **Yahoo! - Hack U** at IIT Kanpur
- 2011 Awarded **Silver Medal in Water Polo** in the Inter-IIT Aquatics Meet, representing IIT Kanpur
- 09-10 Acknowledged in succession as Quizzer of the Year at India International School, Jaipur, India
- 2009 Adjudged as **Singer of the Year** at India International School, Jaipur, India
- 07-08 Stood 2nd and 3rd respectively at **Rajasthan State Open Chess Championship** in U-15 and U-19
- 04-05 Represented school at West Zone Chess Tournament in U-14 and U-19 held by CBSE at Gwalior, India
- 2003 Ranked 2nd at Jaipur Open (U-10) Chess Championship held by Jaipur District Chess Association

POSITIONS OF RESPONSIBILITY

- Department Placement Coordinator, Students' Placement Office, IIT Kanpur** Apr - Dec 2014
- Responsible for placement of 42 students from Department of Mathematics and Statistics within 1st week
 - Facilitated interviews of students for Goldman Sachs and Accenture during campus placements
- Head, Events, Techkriti - Annual Technical and Entrepreneurial Festival, IIT Kanpur** Sep 13 - Mar 14
- Directed a 4-tier team of more than 200 members to accentuate the festival with budget of INR 13 Million
 - Conducted 52 national and 7 international competitions and managed total prizes of INR 2.5 Million
 - Accounted for registration, accommodation and security of more than 1400 participants during festival
 - Collaborated for the first time with **UNESCO** to promote the social initiatives of Techkriti
- Coordinator, 28 States - Flagship Social Initiative Event, Techkriti, IIT Kanpur** Nov 12 - Mar 13
- Spearheaded a 3 tier team of 12 members to conduct a 4 round event aimed at highlighting social issues
 - Publicized extensively and ensured participation of over 750 students and 300 essay submissions
- Student Guide, Counselling Service, IIT Kanpur** Jul 11 - Apr 12
- Mentored 6 freshmen for their 1st year and assisted them in getting acclimatized to campus environment
 - Monitored the orientation process of the undergraduate freshmen batch of 2011 consisting of 827 students
- Coordinator, IDEAS - Flagship Business Plan Competition, Techkriti, IIT Kanpur** Aug 11 - Feb 12
- Conducted India's one of the largest Business-Plan competition in 4 rounds with a budget of INR 300,000
 - Directed a 3 tier team of 13 members and systematized more than 100 entries worldwide