

EDUCATION

Year	Degree	Institute	Performance	Rank
2013	B.Tech-M.Tech Dual Degree Department of Computer Science and Engineering	IIT Kanpur		
2008	AISCE – CBSE XII	Sardar Patel Vidyalaya, New Delhi	95.2%	1
2006	AISCE – CBSE X	Sardar Patel Vidyalaya, New Delhi	95.8%	4

WORK EXPERIENCE

ETH Zurich, Centre for Algorithms, Discrete Mathematics & Optimization **2011**

- Modified the best existing algorithm & implementation to compute smallest ball enclosing a set of points **improving runtime by factor of 10**
- Designed a **more robust implementation** to handle 100 million random points in 10 dimensions in a few seconds

Yahoo Research Labs, Bangalore **2010**

- Proposed the use of Expected Reciprocal Rank (ERR) to measure user satisfaction in Sponsored Search
- Presented concrete guidelines based on **real time ad serve data** for choosing optimal ranking rules in terms of user satisfaction and efficiency

PUBLICATIONS

“Stock Market Prediction using Hidden Markov Models” in *proceedings of IEEE Student Conference for Engineering Systems 2012, Allahabad*

- Received **BEST PAPER AWARD** for presenting the Maximum a Posteriori approach to predict the closing value of stocks given historic data
- **Outperformed existing techniques** based on ANN and ARIMA over common test data sets of Apple, IBM & Dell stocks using MAPE

THESIS

“Machine Learning Techniques for Algorithmic Trading” **Jan 2012-Present**

- **Quantitative Research Intern** at Dolat Capital (2 months), designed 2 HMM based approaches to **predict stock momentum**
- TO BE FILLED

POSITIONS OF RESPONSIBILITY

Convener, Students’ Senate (Elected) **2011-12**

LEADERSHIP	<ul style="list-style-type: none"> • Chaired 14 meetings of the Students’ Senate introducing constitutional amendments like no-preference vote in Elections • Responsible for the management of all clubs, events & festivals under the aegis of the Gymkhana (budget of INR 20 million) • Represented students in 20+ key institute committees like the committee to re-write the UG Manual, S-SAC etc. • Represented IIT Kanpur at the PAN-IIT Global Conference 2011 in New York alongside Director & Chairman, BOG
INITIATIVES	<ul style="list-style-type: none"> • Spearheaded student opposition on the issue of JEE reforms: organised a Special Senate meeting & Open House; Drafted the widely circulated resolution rejecting the proposed changes and emphatically voiced student dissent in the Institute Senate • Implemented the re-structuring of the Gymkhana through Senators Seed fund & Hobby Groups and drafted all required procedures • Conceptualized modifications to paramount policies like Summer Registration & Branch Change as SUGC member (2 years) • Formulated and implemented the Hall Allocation Policy for 2011-12 countering a shortfall in rooms for ~500 students

Editor, Vox Populi – the campus newspaper of IITK **2010-11**

- Edited several **articles, reports** and **interviews** as the editor of the college newspaper circulated to all students and faculty (~5500)
- Created awareness by writing about several **revolutionary issues** related to the mess, contract workers, hall allocation etc.

ACTIVITIES & ACHIEVEMENTS

SCHOLASTIC	<ul style="list-style-type: none"> • Awarded Academic Excellence Award by IITK (top 5% students), securing an SPI of 10/10 in 4th and 8th semester • Awarded the H.M. Patel scholarship for being the school topper in class XII boards
SPORTS	<ul style="list-style-type: none"> • Adjudged BEST INCOMING SPORTSPERSON amongst the students joining IITK in 2008 (~1000 students) • Represented IITK in Basketball at Inter IIT Sports Meet ‘09, ‘10 & ‘11; Won silver medal in sports meet at IITK & IITR • Participated in the High Jump event in Inter IIT’09 and won high jump championship in school clearing 1.52 metres • Silver Medal in Football & Volleyball Varchasva’ 09 & ‘10 (inter hostel sports competition); Green belt holder in Karate
DEBATING /MUN	<ul style="list-style-type: none"> • Coordinator, English Literary Society, 2010-11 <ul style="list-style-type: none"> ○ Steered the club towards English Literary Trophy at Antaragni’10 and other prizes at IITB and IITD ○ Introduced the culture of Parliamentary Debates; Conducted workshops & organised first ever PD at IITK in Galaxy’11 • Represented IITK in various inter-college Debates & MUNs at IITK, IITD etc.; Secured second position in Galaxy’09 debate
MISC.	<ul style="list-style-type: none"> • Link Student & Student Guide, Counselling Service; Handled Labs & Tutorials for 35 students as TUTOR for ESC101 • Participated in the Integrated Rural Development Programme at Abheypur village to promote social awareness & confidence • Elected Representative of my batch for 7 consecutive years (4 in school, 3 at IITK)

