Aditya Gupta+91 9889162265, gaditya@iitk.ac.in

**Education**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Year | Degree | Institute | Performance | Rank |
| 2013 | B.Tech-M.Tech Dual Degree  Department of Computer Science and Engineering | IIT Kanpur |  |  |
|  |  |
| 2008 | AISSCE – 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** | * **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-SA**C etc. * Represented IIT Kanpur at the **PAN-IIT Global Conference 2011** in **New York** alongside Director & Chairman, BOG |
| **Initiatives** | * **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** | * 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 classXII boards |
| **Sports** | * 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** inKarate |
| **Debating**  **/MUN** | * **Coordinator, English Literary Society, 2010-11**   + 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.** | * **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) |