

Jayanth Computer Science & Engineering Indian Institute of Technology Bombay 100050041 B.Tech. Male

DOB: 16.08.1992

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2013	8.16
Intermediate/+2	Delhi Public School R.K. Puram	C.B.S.E.	2010	93.00
Matriculation	DAV Public School	C.B.S.E.	2008	97.20

SCHOLARSHIPS

CBSE Merit Scholarship for Professional Studies for securing All India Rank 300 (State Rank 29) in AIEEE 2010 Science Olympiad Foundation Scholarship for securing All India Rank 9 in National Science Olympiad 2009 National Talent Search Scholarship by National Council for Educational Research & Training for qualifying NTSE 2008 Cash Scholarship worth Rs.36,000 by FIITJEE for securing All India Rank 18 in FIITJEE Talent Reward Exam 2008

SCHOLASTIC ACHIEVEMENTS

- Secured All India Rank 168 in IIT-Joint Entrance Examination 2010 among about 400,000 candidates
- Awarded **Gold Medal** in **Orientation-Cum-Selection Camp for International Chemistry Olympiad** for being amongst the top 36 students in Indian National Chemistry Olympiad 2010
- Awarded Certificate of Merit (top 1% nationwide) in National Standard Examination in Physics 2010
- Selected for Indian National Astronomy Olympiad 2009, Indian National Physics Olympiad 2010 and thrice for Indian National Mathematics Olympiad 2008, 2009 and 2010 after clearing the regional olympiads
- Awarded Hindustan Pratibha Samman for securing State Rank 2 in All India Secondary School Exam 2008
- Secured All India Rank 39, 36, 20 for consecutive years in National Science Olympiad 2006, 2007 and 2008
- Awarded Silver Medal in Delhi Inter School Maths Contest in October 2009
- Pursuing Minor degree in Statistics and Honors Degree in Computer Science & Engineering

Industrial Experience

Deutsche Corporate and Investment Banking Centre, Mumbai

News Analytics, Guide: Mr. Adithya M R, VP

May - July 2013 Equities and Rates Team

- Created a database of over **100,000** asset-specific financial news articles over a period of last 5 years by mining websites of major news feed providers using Selenium, Scrapy and pyMongo packages in Python
- Implemented Keyword & Named Entity Extractor, Domain Classifier, News Summarizer and Sentiment Scorer
- Developed different trading strategies based on moving averages of news sentiment score and outperformed liquid and volatile underlyings (*Google and Shell*) by more than **2.5%** annualized returns with better Sharpe Ratios
- Proposed a model for inflation index calculation using online retail prices to estimate inflation on a daily basis

Edelweiss Capital, Mumbai

December 2012

Risk Management System Testing Automation, Guide: Mr. Akash Agarwal, VP Quant Trading and Risk Team

- Programmed scalable algorithm along with test scenarios using the in-house Java based algorithmic trading platform
- Performed comprehensive testing of pre-trade Risk Management System for different segments and order types

RESEARCH EXPERIENCE

Technische Universitt, Braunschweig, Germany

Wiselib, Guide: Prof. Sandor P. Fekete

May - July 2012 Algorithms Group

- Ported Wiselib, an algorithms library completely written in C++ for networked embedded devices to **Arduino**
- Implemented all the basic Wiselib concepts **OS**, **timer**, **radio**, **debug**, **clock**, **UART** to enable execution of Wiselib localization and routing algorithms without changing a single line of algorithm code

Electronics Club, IIT Bombay

May - July 2011

- Made a **robotic arm** capable of generating a knowledge base of all the stable positions and using that knowledge to move to the instructed position, abstracting the notion of **self-learning** as learning stimulus response pair
- Fabricated a model of a robotic leg and a balancing platform for implementation

Undergraduate Dissertation

Subjectivity Extraction & Opinion Mining, Guide: Prof. Pushpak Bhattacharya

July 2013 - Present

- Aim to solve thwarting and sarcasm detection to increase the accuracy of sentiment classification task
- Surveying the current state of the art in sentiment analysis and presenting papers in weekly group meetings
- Ongoing implementation to develop an online watch group for tracking environmental conditions through sentiment analysis of geo-tagged textual posts on the web to identify potential emergency situations and to use the collected information during disasters for improved crisis management

ACQUAINTANCE BEYOND CORE

Advanced Probability Theory | Statistical Inference | Machine Learning | Derivative Pricing

Positions of Responsibility

Campus Ambassador, Oracle India

May 2013 - Present

- · Planning and hosting Oracle fun events on campus and helping Oracle better understand campus culture
- Learning about innovative Oracle products and programs and promoting them in campus

Teaching Assistant, MA 105 - Calculus

July 2013 - Present

Appointed by Prof. I. K. Rana to conduct tutorial sessions for a batch of 42 students from CS and EE departments

Student Mentor, Department Academic Mentorship Program

July 2012 - Present

- Nominated twice for addressing and resolving academic issues of underperforming second and third year students
- Coordinating with the faculty advisors in handling cases of academic disinclination & depression
- Helped 3 students in last tenure in identifying areas of development and handling stress, who finally cleared backlogs

Internship Coordinator, Placement Office

- Assisted more than 15 companies and 5 universities in student recruitment process for training and internships
- Played a key role in formulating new internship policies, coordination, scheduling and acting as an interface between students, institute authorities and companies, leading to an increase in overall internships by more than 75%

Convener, Vaani - Hindi Club of IIT Bombay

July 2011 - April 2012

- Organized regular Hindi debating and literary arts workshops to encourage participation in Hindi literary activities
- Conceptualized and en route published the first annual Hindi magazine of the IIT Bombay campus, Spandan

Coordinator, TechFest - Technical Festival of IIT Bombay

July 2010 - January 2012

- Led a team of organizers to ensure smooth execution of the LAN gaming competitions in Gaming Zone
- Worked as an organizer of Lift-Off competition in freshmen year, which involved a participation of over 80 colleges

Member, Delhi Public School Mathematics Society

July 2009 - March 2010

- Helped in organizing the Mathematical Crusade, an Interschool Mathematics Quiz Contest in Delhi and NCR
- Conducted workshops for junior students to motivate and encourage participation in Mathematics Olympiad

KEY ACADEMIC PROJECTS

Seminar - Game Theory and AI, Guide: Prof. Pushpak Bhattacharya

February - April 2013

• Conducted a literary survey on connection between Artificial Intelligence and Game Theory by revisiting economic and game theoretic approaches in view of their use in computation

Virtual Memory Management, Guide: Prof. Dhananjay Madhav Dhamdhere

February - April 2013

• Designed virtual memory for OS/161 by implementing swap space allocation to each process, paging, page loading from swap space, page fault handling, page table maintainace and page replacement policy

Electronic Trading Platform, Guide: Prof. Nandlal L. Sarda

October - December 2012

- Designed a convenient and secured trading platform for transactions in different securities through web interface
- Implemented interactive features using JSP servlet, Javascript and MySQL to view and manage personal information, portfolio, transaction history, current pending orders, market order book and net worth of assets

3D Terrain Graphics, Guide: Prof. Varsha Apte

October - December 2011

• Made an application to draw 3D terrain graphics from height maps in C++ using OpenGL graphics library

ProZip, Guide: Prof. Amitabha Saniyal

February - April 2011

• Designed a file compressor in Scheme, which was more efficient than GZip for file sizes less than 20 kB

Extracurricular Achievements

Technical

- Secured World Rank 7 and Asia Rank 1 in HackerRank Quora Machine Learning CodeSprint 2013
- Secured 23rd position representing IIT Bombay at the **Asia Regional Finals** of **ACM ICPC**, Kharagpur 2012
- Awarded 1st prize from Children's Technology Workshop for completing Lego Robotics Sumo Challenge 2010
 Secured 3rd position in Arduino Coding Competition 2011 conducted by Electronics Club
- Awarded Hostel Special Mention in the field of Technical Activities for the year 2010 2011
- Developed geolocation based fare calculater and sentiment based tweet retriever in Yahoo! HackU 2012 & 2013
- Built a line-follower robot to finish in top 50 in Loop Rush Competition held at TechFest 2011

- \bullet Won 3^{rd} prize in Hindi Creative Writing G.C. 2012 and several other accolades for literary arts at institute level
- ullet Scripted and performed as one of the lead actors in the hostel play, bagging ${f 3}^{rd}$ prize in Dramatics G.C. 2011
- \bullet Performed a street play on patriotic theme at Mega Mall, Oshiwara as a part of **Thespo** contingent bagging 2^{nd} position on Independance Day 2011
- Performed a street play at Narsee Monji College as a part of the IIT Bombay street play contingent to Umang 2011
- Awarded Hostel Cultural Color for excellence in cultural activities for the year 2011 2012