

# PRABHDEEP SINGH

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## EDUCATION

Degree/Examination	Year	Institute/School	CGPA/%
Integrated M.Sc. in Statistics and Informatics	2011	IIT Kharagpur	7.8
Class XII: AISSEE (CBSE)	2006	Modi Public School, Kota	77.67%
Class X: AISSE (CBSE)	2004	Shivalik Public School, Mohali	87.17%

**Relevant Courses:** Regression Analysis, Time Series Analysis, Design and Analysis of Algorithms

## PROJECTS

### ➤ Short-term forecasting of transaction load on Application Server

Place: Appnomic Systems Pvt. Ltd. Bangalore

May '10 – July '10

- **Lead analyst** responsible for developing statistical analytical tool to measure server performance
- Formulated a multivariate time series model for forecasting transaction load on any application server
- Implemented the model for real data sets and demonstrated the working with results (MAPE < 10%)
- Part of the team to design this **patent pending product**(tool), Soft-wares used: R, SAS

### ➤ Optimizing decision policy to maximize revenue from TV programs

Place: Indian Institute of Management Bangalore

May '09 – July '09

- Developed a stochastic model for optimizing time spot for TV program
- Illustrated the designed model on expected revenue and costs for IPL 2009
- Co-authored the **research paper** on this model which was presented at **APORS 2009** conference

### ➤ Determination of effect of index option introduction on the volatility of underlying stocks of NSE NIFTY

Place: Indian Institute of Science Bangalore

May '08 – June '08

- Selected in Young Science Fellowship Program **among 40 students** from applicants across institutes nationwide
- Applied Regression and Time Series models for measuring volatility, worked on statistical software R
- Determined the main effects and possible interaction effects between introduction of individual stock option and index stock option on volatility change.

### ➤ Bankruptcy Prediction

Place: IIT Kharagpur

Aug '08 – Oct '08

- Applied two ensemble models for bankruptcy prediction on 26 companies, got 92% accurate predictions
- My team was awarded **1<sup>st</sup> position** out of 30 participating teams for the project work

## POSITIONS OF RESPONSIBILITY

**Academic Review Committee member**, Department of Mathematics

Academic Session '09 - '10

- Proposed curriculum advancements and participated in discussion with Head of Department

**Entertainment Captain**, Nehru Hall of Residence

Academic Session '09 – '10 and present

- Led hostel music team to win Entertainment cup with 1 Gold, 3 Silver and 1 Bronze medals in '09 – '10
- Initiated construction of sound-proof music room in hostel which successfully built and started an intra-hall music event which led participation of more than 25 students in 2010

## EXTRA CURRICULAR ACTIVITIES

### Music

- Sangeet Visharad (5 year certification) in classical instrument Tabla from Pracheen Kala Kendra, Chandigarh
- Won **1 Gold, 3 Silver and 2 Bronze** in Inter Hall Entertainment (Music) events, General Championship Social and Cultural, IIT Kharagpur and won prizes in many other school/university level competitions.
- Won **Entertainment Cup** as team member among 10 teams for **three consecutive years** 2008, 09, 10
- Member of Eastern Technology Music Society (ETMS), IIT Kharagpur 2009 - 2010

### Others

- Member of **1<sup>st</sup> prize winning team/30 teams** in inter-collegiate dramatics competition Rangmanch and **3<sup>rd</sup> prize/30 teams** in national level street play competition Nukkad Spring Fest, IIT Kharagpur 2008
- Won Dramatics Cup as hostel team member among 10 teams in year 2008 and 2010
- Member of Hindi Technology Dramatics Society (HTDS), IIT Kharagpur in academic session 2007-08
- Member of hostel cricket team and National Sports Organisation cricket, IIT Kharagpur 2006-08