

## ACADEMICS

Year	Degree/ Certificate	Institute/ School, City	CGPA/percent
June' 11	CFA Level-1	CFA Institute, USA	Appearing
2006-11	Integrated M.Sc. in Statistics and Informatics	IIT-Kharagpur	7.76/10
2006	STD-XII : Bihar School Education Board	Bihar National College, Patna	67.33%
2004	STD-X : Indian Certificate of Secondary Education	St. Karen's High School, Patna	89.2%

## CO-CURRICULAR

- Received certificates in **Commodities Market** (2010), **Option Trading Strategies** (2010) and in beginners' module of **Currency Derivative** (2010), **Mutual Fund** (2009) and **Financial Markets** (2008) by NSE's Certification in Financial Markets (NCFM).
- Offered **Pre-Placement Interview** by Futures First based on the excellent performance in Trade Mogul, 2010 (simulated online trading competition built by Futures First).
- Tutor at **Transweb Educational Services** to solve online assignment in the field of statistics and mathematics since September 2010.

## RELEVANT COURSES UNDERTAKEN

- |   |   |   |
|---|---|---|
| <ul style="list-style-type: none"> <li>Design and Analysis of Algorithm</li> <li>Finite Automata and Formal Languages</li> <li>Numerical Solution of Ordinary and Partial Differential Equations</li> </ul> | <ul style="list-style-type: none"> <li>Financial Engineering</li> <li>Equity Research</li> <li>Econometric Analysis</li> <li>Economics</li> </ul> | <ul style="list-style-type: none"> <li>Time Series Analysis and Forecasting</li> <li>Regression analysis</li> <li>Stochastic Processes</li> </ul> |
|---|---|---|

## INTERNSHIPS

### SKS Microfinance Limited, Hyderabad

May-July 2010

- Analyzed factors affecting the loan amount disbursed every month and prepared a **Statistical Model** to predict it for the next 7 years in the Management Information System (MIS) department using R software within +/- 5% error.
- Prepared **Financial Model** to study the portfolio outstanding and the default risk associated with the loans disbursed every month using **static pool analysis** and predicting it for the next 7 years in the Finance department using Microsoft Excel.
- Pre-Placement Offer** based on my accomplishments during summer internship.

### University of Glasgow, Scotland

May-July 2009

- Developed three weighted regression models having dissimilar assumptions to predict the temperature at any point on the surface of Caribbean Sea under different geographical constraints and compared them using simulation.
- Offered **100% scholarship** in University of Glasgow for admission to doctoral studies programme, 2011.

## PROJECTS

### M.Sc. Thesis Project, IIT Kharagpur

July 2010-present

- Fitted and compared ARIMA and GARCH time series models to forecast the closing day price of each stock listed on SENSEX.
- Developing a regression model to predict SENSEX using principal component analysis on each stock listed in the Index.

### Term Project, IIT Kharagpur

January-April 2010

- Implemented **Capital Asset Pricing Model** using the data of stock price return of Tandy Corporation and risk free market return using the SAS software.

### Summer Project, IIT Kharagpur

May-July 2008

- Estimated rates of population change from Abundance data using Time Series Analysis and Moving Average Process.

## POSITIONS OF RESPONSIBILITY

Position	Year	Duties/Achievements
General Secretary Sports, Patel Hall of Residence, IIT Kharagpur	2008-09	<ul style="list-style-type: none"> <li>Led a team of six secretaries of different events in sports.</li> <li>Solely responsible for conducting fresher events of 125 students for 14 games.</li> <li>Won the <b>General Championship</b> Sports and continued the winning streak for second time in a row.</li> </ul>
Organizing Team Head, Shaurya, IIT Kharagpur.	2008-09	<ul style="list-style-type: none"> <li>Co-headed a team of 13 members and 70 volunteers to organize the first ever sports fest of IIT Kharagpur, SHAURYA 2008.</li> <li>In its second year since inception, advanced the event scale to thrice the level of participation and over six fold in terms of budgeting, receiving sponsorships worth Rs 12 Lac from companies such as I.T.C. Limited, Stag International and D.L.F..</li> </ul>
Family Head, Corporate Management, Spring Fest, IIT Kharagpur	2008-09	<ul style="list-style-type: none"> <li>Led the volunteers for corporate management team.</li> <li>Managing personnel from different sponsor companies.</li> <li>Ensured that all the sponsors get their appropriate deliverables.</li> </ul>

## EXTRA-CURRICULAR ACTIVITIES

- Best Fresher** award for my all around participation in extra-curricular activities by the Patel Hall of Residence in 2007-08.
- Member of two times **Silver** (2009-11) winning basket ball team of IIT Kharagpur in **Shaurya**, Sports Fest of IIT Kharagpur.
- Member of three times **Gold** (2007-10) winning Basketball team of the Patel Hall of Residence (2007-present).
- Member of **Gold** (2007-08) and **Silver** (2008-09) winning Cricket team of the Patel hall of Residence.
- Member of volleyball (2007-08) and athletics team (2007-present) of Patel Hall of Residence.
- Participated in the inter hall choreography, open-IIT debate and quiz (2007-08).
- Member of National Sports Organization, Basketball (2007-08), National Cadet Corps (2006-07) attended an annual training camp.