Radhika Anand

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Education

2014-2016 (exp) **Duke University, NC, USA**

CGPA: 4/4

Master of Science in Statistical and Economic Modeling

First Semester coursework: Predictive Modeling, Bayesian Statistics, Statistical Programming

2009-2014 Birla Institute of Technology and Science, Pilani, India

CGPA: 9.23/10

Master of Science (Hons.) Economics and Bachelor of Engineering (Hons.) Computer Science

Major GPA:10/10

Work Experience_

01.2014 - 05.2014 **@WalmartLabs, Bangalore, India**

Semester Internship (Data Science)

Team: Competitive Intelligence and Analytics (CIA), @WalmartLabs

- Implemented Modularity Maximization and Spectral Bisection to perform Community Detection to create virtual baskets of Walmart items that tend to sell together
- Handled terabytes of Walmart data to find actionable insights like market share drop, price increase etc.

08.2013 - 12.2013 KOF Swiss Economic Institute, ETH Zurich, Switzerland

Semester Internship (Statistics)

Project: Short-Term Electricity Trade Forecasting for Switzerland

- Applied Neural Networks to conduct rolling out-of-sample forecasts from 2002 onwards & achieved 21% lesser out-of-sample RMSE compared to the existing ARIMA model (which has now been replaced by this model)
- Independently submitted electricity trade forecasts for July to Dec. 2013 to the Swiss Federal Customs Administration

05.2012 - 07.2012 University of Passau, Passau, Germany

Summer Internship (Econometrics)

Project: Forecasting of Future Energy Demands using Statistical Techniques

- Predicted energy demands across various breweries in Germany using ARIMA & VAR
- Focused on trend, seasonal and cyclical time-series forecasting

05.2011 - 07.2013 Bhabha Atomic Research Centre (BARC), Mumbai, India

Summer Internship (Topology)

Project: Development of Structured Mesh Modules using Topology & Computer Graphics

 Created modules to construct generalized shapes, using structured grids, which could be clustered to model real-life objects

Skills

Computer Skills Languages: C, Python, C++, R, Stata, Matlab, SQL

Big Data Platforms : Hadoop, Hive

Coursework Probability & Statistics, Multivariate Calculus, Matrix Algebra, Data Structures and Algorithms, Database Systems, Operating Systems, Optimization, Operations Research, Pattern Recognition, Econometrics,

Microeconomics, Macroeconomics, Money Banking and Financial Markets

Achievements

Publications

Published

Radhika Anand and Shachi Madhogaria. (2012). "Is Gold a Safe-Haven? – An Econometric Analysis," Procedia Economics and Finance Journal. 1, pp. 24-33.

- Studied the correlation and causality relation between Gold & Stock prices
- Won the 'Best Paper Award' in APOGEE (BITS annual technical festival), 2012
- Presented at the International Conference on Applied Economics (ICOAE), 2012 in Uppsala, Sweden

Honors

Scholarships and Awards

- Masters in Statistical and Economic Modeling Award, 2014, for tuition waiver at Duke University
- Sir Ratan Tata Education Travel Grant, 2014, India
- Mitacs Globalink Fellowship, 2013, Canada
- DAAD-WISE Scholarship, 2012, Germany
- Indian Academy of Sciences' Summer Research Fellowship, 2012, India
- OP Jindal Engineering and Management Scholarships (OPJEMS), 2012, India
- Scholar Badge for academic excellence from 2005-09, Delhi Public School, RK Puram

Semester Projects_____

01.2013 - 05.2013 Forecasting using Social Media Networks

Used Twitter and sentiment analysis to predict daily candidate popularity ratios for 2012 US Elections
using ARIMA approach with an aim to replace traditional polling methods with cheaper, accessible &
largely untapped social media platforms

01.2012 - 05.2012 **Stock Trading using Fuzzy Logic**

 Devised a stock trading model using 4 technical indices: CCI, RSI, MACD and Bollinger bands to help traders take BUY/SELL decisions regarding a stock.

07.2011 - 12.2011 Betting on the Initial Public Offering (IPO): Observations from Indian Stock Market

• A quantitative analysis of the price performance of IPOs across all sectors, of all the companies that had gone public from 2006 to 2010.

Additional Experience

07.2012 – 05.2013 Co-Founder of the venture Stockr, which aimed at making intraday trading viral in India. I particularly worked on Forecasting of Future Stock Prices using Neuro-Fuzzy Methods.

06.2009 – 07.2009 Worked with World Famous Indian Mathematician and Book Writer, DR. R.D. Sharma, and wrote two chapters on Differentiation and 3-D Geometry in his book for 12th standard Mathematics.

Extra-Curricular Activities

08.2009 - 05.2013	Group Leader and Core Member, Department of Theatre, BITS Pilani
08.2010 - 05.2013	Member of BITS Pilani's parliamentary debating team
	Won the best adjudicator award at 2nd IIT Bombay debate
01.2012 - 05.2012	Head, Publicity and Correspondence, QED, BITS Annual Parliamentary Debating Tournament
08.2011 - 05.2012	Captain, Girls' Lawn Tennis Team, BITS Pilani
	Won Silver, Bronze and Gold at 3 consecutive BITS Open Sports Meets (BOSM) for Girls' Lawn Tennis
08.2011 - 05.2012	Sports Secretary, Meera Bhawan (girls' hostel), BITS Pilani
12.2011 - 12.2011	Worked at a NGO Sampurna in Delhi, dedicated towards solving problems faced by teenage girls

Hobbies