
PROFESSIONAL OVERVIEW

Highly motivated graduate student in Analytics with 6 years of experience in developing software products for analytics and visualization. Passionate to leverage quantitative, programming and analytical skills to provide strategic decision making for stake holders of all levels

- Distinguished academic background in Statistics, Applied Statistics and Analytics
- Experienced in interpreting complex statistical methodologies, their outputs and visual presentation
- Ability to code statistical methods using programming languages and packages
- Success in working for a cross-functional global team
- Excellent communication skills, invited speaker at **BI Tech series 2007**, Organized by **SAS** and Speaker at **SUN Tech 2007**, Organized by **SUN Microsystems**,
- Participating in SAS' 12th Annual Data Mining Conference, M2009

EDUCATION

M.S. in Analytics (G.P.A. 3.9/4.0) Expected MAY 2009

North Carolina State University, Raleigh, NC

Relevant Courses: Survival Analysis, Financial Analytics, Categorical Data Analysis, Logistic Regression [Ordinal, Nominal, Conditional, Exploded logit], Linear and Non-Linear Regression, Time Series Forecasting, Customer Analytics, Risk Analytics, Optimization and Data Mining Techniques.

M.S. in Applied Statistics and Informatics 2001

Indian Institute of Technology Bombay (IIT Bombay), India

Relevant Courses: Linear Programming, Time Series Analysis, Regression and ANOVA, Discrete Data Structures and Algorithms, Programming Languages, Database

B.S. in Statistics (minors in Economics and Mathematics) 1999

St. Xavier's College, Calcutta, India

Relevant Courses: Descriptive Statistics, Statistical Distributions, Hypothesis Testing, Estimation Theory, Linear Algebra, Probability Distributions, Multivariate Analysis

EXPERIENCE

Practicum Project

Insurance Company (a Fortune 500 company)

- Analyzed Insurance cycle data to provide critical input into long-term strategic-loss-cost planning and corresponding multi-period economic scenario planning
- Performed detailed study and developed an in-depth understanding of business cycle and the governing factors

Fractional Aircraft Ownership Company (Private Jet)

- Creating simulation based predictive model to forecast the pilot's preferences for newer roles that could result in a significant decrease in training cost. Using discrete choice analysis
- Retrieved requirements, presenting directly to executive sponsors

Academic Projects

Customer Analytics: Developed a need-based segmentation for a leading US based beer manufacturer. Segmented customers into meaningful and measurable groups based on needs, purchase behavior and demographics

Statistical methods: clustering, segment profiling

Tools used: SPSS

Data mining: In order to understand the common issue faced by analysts with huge number of regressors, we performed variable reduction techniques to classify subjects into categories. The success of the solution was later measured by comparing the predicted versus observed

Statistical methods: Principal Component Analysis, Eigen structure, Covariance structure, Discriminant analysis, and ROC to determine the accuracy of the model

Tools used: SAS

Survival Analysis: Built survival models to predict the life expectancy of terminal illness patients

Statistical methods and SAS procedures: Canonical discriminant analysis, lifetest, lifereg, phreg.

Tools Used: SAS

Professional Experience

SAS Research and Development, India

OCT 2005 – JUN 2008

Software Specialist

Key member of a global interdisciplinary R&D team with core focus on developing data visualization product, SAS Graph. This required a deep understanding of the underlying statistical concept and the respective SAS procedures.

- Enhanced graphs for SAS EMiner, SAS HCM, SAS Text Miner and Forecast Studio to build easy to understand graphs of complex concept
- Implemented computational intensive node layout algorithms on weighted graphs, allowing end users to understand the information more clearly
- Performed major enhancements in graphs of SAS EMiner 5.3 for fast loading with less memory foot print
- Participated in developing real time response graphs to facilitate interactive data mining
- Improved the scalability of the products by optimizing the code. Resulting in 30% improved performance
- Made proof of concepts on general algorithms for directed and undirected graphs on node traversals [Minimum spanning tree, Shortest Path and Maximum Network flow]. It could be used in subsequent releases to interactively solve various network optimization issues in BI

Geometric Global, Pune, India

OCT 2001 – SEP 2005

Sr. Software Engineer

Member of information visualization product development team of 6 core developers

- Developed real time collaborative and data visualization product to help the customer to review 3D model
- Developed a CAD plugin called “eDrawings for Pro/Engineer.”

TECHNICAL SKILLS

Programming Languages: SAS, SPSS, Java, C, C++, ANT, JNI

Statistical Packages: SAS/Stat, SAS/Graph, SAS Macro, SPSS, JMP, SAS Enterprise Guide, SAS Enterprise Miner, SAS Time Series Forecasting System, ArcGIS Package, Access, Excel, Crystal Ball, SQL

CERTIFICATIONS

- Advanced Programmer for SAS®9
- Predictive Modeler Using SAS® Enterprise Miner™ 5.2 (in progress)
- Six Sigma green belt trained (pending project completion), black belt training (in progress)
- C3 Communications Speaker certification (in progress)

PROFESSIONAL RECOGNITIONS

- SAS R&D India: “Valuable Contribution Award,” 2005-2006
- Geometric Global, India: “Valuable Team Contribution Award,” 2003-2004
- Geometric Global, India: “Top 10% Contributor Award,” 2002-2003

PRESENTATIONS

- Speaker at **BI Tech series 2007**, Organized by SAS. Topic: “Data Visualization with SAS.”
- Speaker at **SUN Tech 2007**, Organized by SUN Microsystems. Topic: “Large Scale Data Visualization in Java.”