

OBJECTIVE

To obtain a permanent position which provides opportunities to utilize my education, apply my work and research experiences and demonstrate my analytical abilities

EDUCATION

01/2007–12/2008

Binghamton University, SUNY Binghamton, NY

MS in Systems Science

- GPA – 3.875/4.00
- Relevant courses – Operations Research; Applied Probability & Statistics; Modeling & Simulation; Relational Data Analysis; Fuzzy Logic, Uncertainty & Information; Knowledge Discovery & Decision Making
- Research interest – Data classification (segmentation) using Association Analysis (Market Basket Analysis) & Neuro-Fuzzy approaches
- Familiar with classification (segmentation) algorithms and techniques including Naïve Bayesian Classification, Decision Trees, classification using Neural Networks, Nearest-Neighbor Classifiers, Neuro-Fuzzy Classifiers, Association-based Classification
- Other interests
 - Extracting conceptual clusters and cluster hierarchy from object-attribute data using Formal Concept Analysis
 - Determining data dependences in the form of Attribute Implications
 - Relational Factor Analysis (to determine which factors describe object-attribute data – to reduce dimension of data)
 - Fuzzy Logic modeling
 - Function approximation/forecasting using Adaptive Network-based Fuzzy Inference System (ANFIS) and Neural Networks
- Data mining software skills
 - WEKA (for classification – estimating predictive accuracy of a classifier with different classification methods)
 - LIS-p Miner (for association rule discovery using GUHA)
 - SAS
- Master's Thesis – “A hill-climbing algorithm combined with fuzzy set concepts toward the development of a compact associative classifier”
 - Research focused on building an accurate classification model with small number of classification association rules
 - “General Unary Hypotheses Automaton (GUHA)” method employed to generate hypotheses from datasets
 - Hill-climbing algorithm devised to identify a small set of association rules for classification
 - Fuzzy set concepts utilized to avoid rule conflicts, thereby leading to accurate classifiers (10-fold cross-validation employed to determine predictive accuracy of classifier)
 - Experiments conducted using benchmark datasets (from UCI Machine Learning Repository) for validation of proposed methodology

08/1999–05/2003

Jadavpur University Kolkata, India

Bachelor of Mechanical Engineering

- GPA – 3.61/4.00

- Secured First Class with Honors
- Ranked among top 2% of students of graduating class

EXPERIENCE

02/2007–12/2008 Country Valley Industries Johnson City, NY

Graduate Research Associate

- Work focused on improvement of quality program towards meeting Frito-Lay’s packaging standards for food products and FDA standards for food safety/defense
- Additional responsibilities:
 - Development and implementation of Preventive Maintenance Program for plant machinery and Lean Operating Practices
- Efforts in above resulted in increase of quality compliance rating from 67% to 96% in audit conducted by American Institute of Baking (AIB), and from 73% to 94% in audit conducted by Frito-Lay

07/2003–12/2006 Ashok Leyland Limited Chennai, India

Deputy Manager – Project Planning

- Responsibilities:
 - Planning of capacity, investment, process, layout, equipments and manpower for manufacturing facilities for surface treatment and painting of automobile components (axles, truck cabins, truck and bus chassis) with integrated material handling systems
 - Procurement and supervision of installation and commissioning of above facilities at site
 - Ensuring timely completion of projects within approved budget limits
- Managed projects worth over \$2M for:
 - Capacity optimization/enhancement
 - Accommodating new products
 - Replacement of equipments
- Other professional activities:
 - Development of Process Planning Sheets
 - Development of Manufacturing Strategy and Investment Plans
 - Participation in ISO and TS certification and surveillance audits

SKILLS

Computer skills

- Languages – C
- AUTOCAD
- Simulation Software – Arena
- Statistical Software – MINITAB
- Microsoft Word, Excel, PowerPoint, Access, Project, Visio
- Operating System – Windows
- MATLAB
- Data Mining softwares – LISp-Miner; WEKA; SAS

Six Sigma Green Belt

- Joint certification by Indian Statistical Institute and Ashok Leyland Limited, India
- Completed a capacity enhancement cum operating cost reduction project using Six Sigma tools

ACTIVITIES

Binghamton University, SUNY

- Member of service-learning project team aiming optimization of resources through simulation study at Broome Workforce New York Center, Binghamton, NY
 - Simulation study done using Arena software to provide answers to “what-if” scenarios

Ashok Leyland Limited

- Key member of a cross-functional team focusing on debottlenecking a manufacturing facility using Six Sigma methodologies for problem-solving
- Involved in several other cross-functional teams targeting reduction of operating expenses as well as increased capacity of production lines

HONORS/AWARDS

- 2008 – Award by Country Valley Industries, NY recognizing contributions towards development and improvement of their quality and manufacturing systems
- 2008 – “Contract Packaging Star of 2007” award by Frito-Lay, Texas recognizing efforts in improving quality systems at Country Valley Industries, NY
- 2008 – Inducted into Alpha Pi Mu Industrial Engineering Honor Society
- 2005 – “Reward for Individual Search of Excellence” (RISE) by Ashok Leyland Limited, India for suggesting methods for processing new model of truck cabins in pre-treatment/paint shop with minimum modifications to existing facilities
- 2003 – Medal by Jadavpur University, India for highest score in “Design of Machine Elements” among 105 students in undergraduate curriculum
- 2002 – National Scholarship Certificate by Government of India for securing 35th position in Higher Secondary Examination, 1999, West Bengal, India
- 2000 – National Scholarship Certificate by Government of India for securing 27th position in Secondary Examination, 1997, West Bengal, India