

ASHUTOSH NANDESHWAR

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PROFILE

Extensive experience in data mining, analytics, and business intelligence. Hands on background enhanced by PhD, MS, and BS in Industrial Engineering. Contemporary knowledge of cutting-edge technology supporting analytics; able to learn new tools quickly. Recognized in professional, academic, and competitive environments for innovative strategies and analytical skills. Successful leader and displaying excellent communication skills in highly collaborative settings. Perform all functions with integrity while attending to all details. Exceptionally strong work ethic.

TECHNICAL SKILLS

Business Intelligence/Data Mining: Xcelsius, Tableau, Discoverer Plus, Cognos, Weka, Clementine, R, Orange, RapidMiner

Database Management: Access, MS SQL, MySQL, Oracle

Maths/Stats: Arena, Design-Expert, JMP, Matlab, Minitab, MathCad, S-Plus, SPSS, SAS

Desktop Publishing: Adobe Acrobat, Dreamweaver, Illustrator, Swish, L^AT_EX

Programming Languages: C, VBA, VB6, ASP.Net, Python, PL/SQL

EXPERIENCE

Kent State University

Kent, OH

Institutional Research Information Officer

2006 - Present

- Managed development of the following, resulting in success and recognition:
 - Predictive models on alumni data using data mining to target prospects
 - Data extraction PL/SQL files on student enrollment, alumni, course registration, and human resources from ERP - SunGard Banner
 - Data reporting solutions and applications using .NET (included design)
- Analyzed the following, using cutting-edge data mining techniques:
 - Student course demand to support class scheduling
 - Student retention models (included development)
 - Student admissions and financial aid data to increase enrollment
- Designed, developed and maintained the following:
 - Local data warehouse for efficient reporting and application development
 - Responsibility Centered Management budgeting model application
 - Income generation application based on student course enrollment/tuition paid
 - University-wide dashboard with Excel and Xcelsius
 - Project tracking and management program using Access, SQL, and VBA
- Automated processes for report generation, including IPEDS survey.
- Effectively generated reports for routine/urgent ad hoc requests using Access, SQL, Cognos, and Brio.

Office of Planning, West Virginia University

Morgantown, WV

Graduate Administrative Assistant

2004 - 2006

- Successfully developed the following:
 - Trees, Rules, and Bayes mining models for predicting enrollment from admissions data (included analysis)
 - Cutting-edge models to forecast at-risk first-time freshmen using data mining tools-neural networks, decisions trees, and linear regression

- Designed, developed, and maintained the following with focus on innovation, using Access, SQL and VBA:
 - Project tracking and management program
 - Database program for scholarship allotment
- Conducted detailed longitudinal studies to significantly increase retention rate in analyzing student financial data.
- Generated thorough reports for routine and urgent ad hoc requests using SAS, Access, SQL, and Discoverer Plus.
- Imported and managed student enrollment, admissions, and financial data with Access and Excel.
- Supported effective and successful advanced Excel training for university staff.

Division of Plant & Soil Sciences, West Virginia University
Student Employee

Morgantown, WV
 2003 - 2004

Department of Industrial Engineering, West Virginia University
Graduate Assistant

Morgantown, WV
 2001 - 2003

EDUCATION

PhD in Industrial Engineering
West Virginia University

Expected graduation: Fall 2009
 Morgantown, WV

- Dissertation: Longitudinal Studies of Student Cohort Using Data Mining
 - Designed studies to identify patterns that reduced recruiting costs and increased retention effectively and successfully.
 - Used innovative data mining tools to develop models predicting potential incoming and withdrawing students.

MS in Industrial Engineering
West Virginia University

Graduation: 2006
 Morgantown, WV

- Thesis: Models for Calculating Confidence Intervals for Neural Networks
 - Developed application to calculate confidence intervals using non-linear regression, maximum likelihood estimation, and bootstrapping for neural networks in Visual Basic and VBA (Access / Excel).
 - Conducted analysis and comparisons to techniques using statistical methods on multiple data sets.

BE in Industrial Engineering
Nagpur University

Graduation: 2000
 Nagpur, India

- Participated in group project: “Spare Parts Management at Western Coalfields Ltd”

PUBLICATIONS

- Nandeshwar A., *Models for Calculating Confidence Intervals for Neural Networks*, VDM Verlag, ISBN-10: 3639105486, ISBN-13: 978-3639105483
- Chandran, R. S., Nandeshwar, A., Zachariahs, V. M., Mandal, M., *BLOW: Biology and Life Cycle of Weeds - Prototype of an Educational Tool on Weed Growth and Life Cycles*, Proceedings of the Annual Meeting- Northeastern Weed Science Society, 2004, VOL 58, pages 89.
- Nandeshwar A., Creese R. C., *Improvement Curve and Revenue Cost Models*, AACE International Transactions, 2003, p1-1, 8p.
- Creese R. C., Nandeshwar A., Sibal P., *Ship Deconstruction Cost Models*, AACE International Transactions, 2002, p09.1, 5p.
- Nandeshwar A., Pujari N. A., Chandekar N., Sibal P., Tekriwal K., Gole S.V., *Materials management at WCL*, Trends in IE-2000, Nagpur, India .

PRESENTATIONS

- Nandeshwar A., *Workshop on Advanced Excel Techniques*, Ohio Association for Institutional Research and Planning, Columbus, Ohio, 2007 and 2008.
- Nandeshwar A., Chaudhari S., *Student Enrollment Prediction Model Using Admissions Data: A Data Mining Approach*, Poster presented at Data Mining Conference 2007, Las Vegas, Nevada, 2007.