

BISWAROOP CHATTERJEE

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OBJECTIVE

To pursue a career in data analysis and financial modeling leveraging quantitative techniques and IT skills.

EDUCATION

Cornell University, Ithaca, NY 2004 – 2005
M. Eng. in Computer Science, GPA – 3.51

University of Utah, Salt Lake City, UT 2000 – 2003
M.S. in Chemistry (Organic Chemistry Division), GPA - 3.68

St. Stephen's College, Delhi University, New Delhi, India 1996 – 1999
B.Sc. (Honors) in Chemistry, First Class

Selected Relevant Coursework – Machine Learning & Data Mining, Computational tools for Finance, Advanced Algorithms, Database Management, Theory of Computation, Parallel & Concurrent Computing, Computer Networks, Distributed Systems, E-commerce, Financial Markets & Institutions, Managerial Finance.

WORK EXPERIENCE

- Provenir Inc.**, Parsippany, NJ 09/2005 – Present
Solutions Analyst: Part of a 3 member team involved in development and maintenance of Provenir Solution Packs, configurable frameworks for financial risk analysis products used by major banks and insurance companies for Loan Origination, etc.
- University of Texas at El Paso**, El Paso, TX 08/2003 – 07/2004
Graduate Research Associate: Teaching duties for undergraduate Computer Science courses as a lecturer as well as a teaching assistant as well as research in Human Computer Interaction projects relating to spoken dialog systems.
- University of Utah**, Salt Lake City, UT 05/2001 – 07/2003
Graduate Research Assistant: Research in the area of nanotechnology and self-assembly on 3 projects yielding 2 scientific publications.

SELECTED PROJECTS

- Small Business Provenir Solution Pack** – Decisioning package for Small business loan originations incorporating live credit bureau connectivity with Dun and Bradstreet, Experian Business as a part of a framework which can be configured for individual small business lending institutions. Technical Skills: DOM4J, XML, Javascript.
- AguaRed** – Generating and testing a cost-effective gravity-based water supply network from GPS positions for villages in remote mountainous areas. To be utilized by surveyors and engineers for water networks in developing countries. (Implementation in C#).
- Pricing American and European Options using the Crank-Nicolson method** – Valuation of European Calls and Puts using the Crank-Nicolson Finite Difference method. In the case of American Puts, the Linear Complementarity Formulation (LCF) was used along with the Crank-Nicolson method using the Projected Successive Over-Relaxation (PSOR) technique. Technical skills: MATLAB.
- KDD CUP**– Using supervised learning on a model based on a combination of Machine Learning Techniques like Neural Networks, Support Vector Machines, and Decision Trees to make accurate predictions on large datasets based on limited training data. Required scripting in PERL and TCSH for data manipulation as well as MATLAB and C.
- Technology Rich Mutual Funds and their performance during and after the “Tech Bubble”** – Study of persistence and investment strategies based on technology rich mutual funds before and after 2001 when the market went into a slump. (using Excel, Access & Stata)

COMPUTER SKILLS

Programming: C/C++, Java/Javascript, C#, UNIX Scripting, SQL, PL/SQL, MPI C.

Platforms: Linux, Solaris, Windows NT/XP/2000.

Applications: MATLAB, Oracle 9i, IND Decision Trees, SVM Light, Access, Excel, OPNET, Bloomberg.

SELECTED PUBLICATIONS

- “Self-Assembly of Flexible Supramolecular Metallocyclic Ensembles: Structures and Adsorption Properties of Their Nanoporous Crystalline Frameworks” by B. Chatterjee, P.J. Stang et al. **Journal of American Chemical Society** Vol 126(34) 2004; pp. 10645-10656.
- “Thermally Stable Porous Supramolecular Frameworks based on Metal and Pi-Pi Stacking Directed Molecular Self Assembly” by J. C. Noveron, B. Chatterjee, P. J. Stang et al. **Journal of Physical Organic Chemistry**, Vol 16, 8, 2003, pp. 420-425.

LANGUAGES

English, German, Hindi, Bengali.

AWARDS / CERTIFICATIONS

- Oracle Certification Exam #1Z0-007 Oracle9i: SQL.
- Paper Presentation Competition Award:** Inter-collegiate Symposium in St. Stephen's College for an image compression algorithm.
- Vinod Dikshit Award** awarded by the Vinod Dikshit Foundation, Delhi for project entitled “Mass Transport System” in 1993.