Tej Anand

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EDUCATION

Ed.D., Teachers College, Columbia University, 2014
Concentration: Organizational Learning & Leadership
Dissertation: *Team Learning to Narrow the Gap between Healthcare Knowledge and Practice*

M.S., Computer Science, University at South Carolina, 1987
Concentration: Artificial Intelligence
Thesis: *MIDST (Mixed Initiative Dempster-Shafer Tool): An Expert System Shell for Mixed Initiative Reasoning*

B.Tech., Electrical Engineering, Indian Institute of Technology, 1985

TEACHING EXPERIENCE

Assistant Clinical Professor, University of Texas at Austin, 2019-current
McCombs School of Business
Graduate Courses Teaching and Curriculum Development:
MS Business Analytics Program: Data Management, Capstone
MS Information Technology & Management Program: Data Management, Introduction to Blockchain, Blockchain Solution Development with Smart Contracts
Undergraduate Courses Teaching and Curriculum Development:
Introduction to Information Technology Management (Honors), Database Management

Lecturer, Columbia University, 2018-present
School of Professional Studies
Graduate Courses Teaching and Curriculum Development:
Digital Disruption, Blockchain AI & IT

Adjunct Faculty, Mercy College, Fall 2018
College of Liberal Arts, Math & Computer Science
Undergraduate Course Teaching and Curriculum Development:
Distributed Database Security

INDUSTRY EXPERIENCE

Chief Information, Technology & Data Officer, CareCentrix, 2013-2018
Doubled revenue to $1.6B and quadrupled earnings to $110M by creating and executing a comprehensive technology strategy aligned with business strategy.
Increased sales pipeline 10-fold by incubating an entrepreneurial team of Data Scientists and Advanced Technologists to drive growth with data-driven strategies.

Sr. Vice President Data & Analytics, CA Technologies, 2012-2013
Drove annualized savings of $10M+ and incremental net new sales by creating and implementing a comprehensive Information Management strategy, improving data quality and integration, and creating focused analytics teams.

Vice President Data & Analytics, Medco Health Solutions, 2003-2012
Achieved $1B in incremental revenue, $20M in annual cost reductions and improved patient outcomes for millions of patients by conceiving, patenting and implementing Therapeutic Resource Centers, a new clinical operating model for Medco's pharmacies based on advanced analytics.
Contributed over $1B in incremental revenue by developing patented analytics tools for clients and recommendation engines for patients.

Vice President Consulting, The Concours Group, 2001-2002
Generated $25M+ in revenue through Business/IT Strategy, IT Architecture, Data warehousing, and knowledge management consulting for clients such as
Bacardi, International Paper, Marriott, Foster Farms, Thomson Publishing, PSE&G and the California State Teachers Retirement System.

Chief Information Officer, NetCreations, 2000-2001
Enabled 400% revenue increase by improving performance, reliability, scalability of core database.

Chief Information Officer, Golden Books Family Entertainment, 1998-2000
Led turnaround by transforming IT function from a laggard to a creator for competitive advantage leveraging content, commerce and analytics.

Director Knowledge Discovery, Teradata/NCR/AT&T, 1993-1998
Created Management Discovery Tool (MDT), a unique data-mining product that provides executives with explanations of changes and trends in their business in easy to understand language.

Drove $100M+ in annual product revenue by leading a global team of data mining technology and business consultants with annual consulting revenue of $5M+.

Senior Manager Artificial Intelligent Development, A. C. Nielsen, 1990-1993
Achieved incremental revenue of $50M+ and renewal of several vulnerable clients by collaborating with Marketing/Sales to conceive and implement novel data mining products.

Member of Research Staff, Philips Research Laboratories, 1987-1990
Conducted research in Artificial Intelligence and Computer Supported Cooperative Work.

MENTORING & ADVISORY BOARD SERVICES

The Inceptary, Founder and Advisory Board Member, 2020-present
A non-profit "thinking social network" advocating for disruption and transformation of US healthcare.

Journal of Reflective Practice, Editorial Board Member, 2019-present
A refereed journal focused on different kinds of reflective practices and the learning they can enable.

BrilliantMD, Founder and Advisory Board Member, 2019-present
A for profit enterprise focused on using AI, machine learning, blockchain technology and advanced analytics, to provide transparency to healthcare data.

LearnLong Institute for Education & Learning Research, Board Member, 2016-present
Focused on increasing critical thinking skills in vulnerable communities through action inquiry.

Columbia University School of Professional Studies, Mentor, 2014-present
Mentor students enrolled in the Executive Master of Science in Technology Management program on their capstone projects.

Workforce Opportunity Services, Curriculum Developer & Instructor, 2014-present
A nonprofit committed to developing the skills of untapped talent from underserviced and veteran communities. I developed and delivered a five-week course for veterans without technology education or experience to help them build skills for business and data analysis, leading to well compensated employment.

UNIVERSITY ADMINISTRATIVE & COMMITTEE SERVICES

University of Texas McCombs Diversity & Inclusion Committee

University of Texas Business Analytics Undergraduate Major Development Committee

University of Texas McCombs Analytics Task Force

Texas Blockchain Initiative, Faculty Advisory Board

GRANTS

Construction Industry Institute

Multiparty Computation on a Blockchain System part of the Operating System 2.0 (OS2) Industrial Affiliates Program. May, 2020.

Texas Blockchain Initiative

Algorithms for Governance of Blockchain Systems, February, 2020.

National Science Foundation

STTR Phase1: CLEAR: Reducing Claims Denials in Healthcare Through Blockchain and Machine Learning. July, 2019.

PUBLICATIONS

1. "Overview of Transformative Learning I: Theory and its Evolution," Anand, T., Anand, S., Welch, M., Marsick, V., Langer, A., *Reflective Practice: International and Multidisciplinary Perspectives*. 21:6, November, 2020.
2. "Overview of Transformative Learning II: Real-world Applications," Anand, T., Anand, S., Welch, M., Marsick, V., Langer, A., *Reflective Practice: International and Multidisciplinary Perspectives*. 21:6, November, 2020.
3. "Using Technology to Teach and Teaching about Technology: Synergies for the Digital Age," Anand, S., Anand, T., In R. Gothian, Y. Kang, J., Safdieh (Eds.), *Handbook of Research on the Efficacy of Training Programs and Systems in Medical Education*. IGI Global. doi:10.4018/978-1-7998-1468-9. December 2019.
4. "Team Learning to Narrow the Gap between Healthcare Knowledge and Practice," Anand, T. (Doctoral Dissertation), 2014. https://eric.ed.gov/?id=ED567253.
5. "Data Mining Tasks and Methods - Subgroup Discovery: Drill Down Methods," Anand, T., In W. Klosgen, & J. Zytkow, (Eds.), *Handbook of Data Mining and Knowledge Discovery*, Chapter 16, pp. 364-367. Oxford University Press. 2002.
6. "Skills and tasks of a data mining practitioner: A report from the trenches," Kerber, R., Anand, T. *Proceedings of the Workshop on Keys to the Commercial Success of Data Mining*. August 1998.
7. "Completing a Solution for Market-Basket Analysis." Beck H., Anand, T. In *Proceedings of the Workshop on Keys to the Commercial Success of Data Mining*. August 1998.
8. "Active Templates: Comprehensive Support for the Knowledge Discovery Process," Kerber, R., Beck, H., Anand, T., Smart, B., Proceedings of the *Fourth International Conference on Knowledge Discovery and Data Mining*, pp. 244-249. August 1998.

9. "Evolution of a User Interface Design: NCR's Management Discovery Tool," Knutson, J., Anand, T., Henneman, R., Proceedings *of CHI 97 (ACM Special Interest Group on Computer Human Interaction)*, pp. 526-533. March 1997.
10. "The Process of Knowledge Discovery in Databases: A Human-Centered Approach," Brachman, R., Anand, T., In Fayyad, U. M., Piatetsky-Shapiro, G., Smith, P. and Uthurasamy, R. (Eds.), *Advances in Knowledge Discovery and Data Mining*, Chapter 2, pp. 37-57. AAAI Press: Menlo Park, CA., 1996.
11. "Opportunity Explorer: Navigating Large Databases Using Knowledge Discovery Templates," Anand, T., Kahn, G., *Journal of Intelligent Information Systems*, 5(1): 23-35, 1995.
12. "Knowledge Discovery in Databases: The Process," Brachman, R., Anand, T., *Proceedings of the AAAI Workshop on Knowledge Discovery in Databases*, pp. 1-12, 1994.
13. "Focusing Knowledge-based Analysis on Market Analysis," Anand, T., Kahn, G., IEEE *Expert*, 8(4), August 1993.
14. "Opportunity Explorer: Navigating Large Databases Using Knowledge Discovery Templates," Anand, T., *Proceedings of the AAAI Workshop on Knowledge Discovery in Databases*, pp. 45-51, 1993.
15. "Making Sense of Gigabytes: A System for Knowledge-Based Market Analysis," Anand, T., Kahn, G., *Proceedings of the Fourth Innovative Applications of Artificial Intelligence*. pp. 57-69, July 1992.
16. "Spotlight: A Data Explanation System," Anand, T., Kahn, G., Proceedings *of the Eighth IEEE Conference on AI for Applications*, pp. 2-8, March 1992.
17. "Knowledge-Based Testing and Validation of Domain Specific Knowledge," Caviedes, J., Anand, T., *Proceedings of the Fifth International Symposium on Methodologies for Intelligent Systems*, October 1990.
18. The DSS Environment for Developing Expert Systems for Troubleshooting," Caviedes, J., Anand, T., Expert *Systems*, vol. 2, no. 3, Auerbach Publishers, November 1990.
19. "A Tool for Evaluating Compiler-Based Parallelization Strategies," Anand, T., Gupta, R*., Mathematics and Computers in Simulation*, vol. 31, nos. 4 & 5, pp. 509-517, Oct., 1989. Also, in J. Rice, E. Houstis and R. Vichnnevetsky (Eds.), *Fourth Generation Mathematical Software Systems*, North-Holland, 1989.
20. "Using the Dempster-Shafer Scheme in a Mixed-Initiative Expert System Shell," Anand, T., Biswas, G. In L. Kanal, J. Lemmer, and T. Levitt, Eds. *Uncertainty in Artificial Intelligence 3*, pp. 223-239, North-Holland, 1989.

21. "Extending CATS: Mixed-Initiative Inferencing," Anand, T., Lee, K., *Proceedings of the Fifth IEEE Conference on Applications of Artificial Intelligence*, pp. 107-115, March 1989.
22. "A Knowledge-Based Tool for Parallelizing Scientific Programs," Anand, T., Gupta, R., *Proceedings of the IMACS Conference on Expert Systems and Numerical Computing*, pp. 82-84, December 1988.
23. "MAGIK: A System for Hydrocarbon Play Analysis," Morgan, P., Biswas, G., Kendall, C., Bezdek, J., Anand, T., SPIE *Proceedings: Applications of Artificial Intelligence VI*, vol., 937, pp. 36-44, April 1988.
24. Hydrocarbon Exploration Using a Knowledge-Based Approach," Morgan, P., Kendall, C., Biswas, G., Anand, T., Bezdek, J. In Proceedings of the *AAPG Annual Convention*, March 1988.
25. "An Expert System Shell for Mixed-Initiative Reasoning," Biswas, G., Anand, T., *Journal of the Indian Institute of Science*, vol. 67, pp. 465-490, November-December 1987.
26. "MIDST: An Expert System Shell for Mixed-Initiative Reasoning," Biswas, G., Anand, T., *Proceedings of the Second International Symposium on Methodologies of Intelligent Systems*, pp. 1-8, October 1987.
27. "Using the Dempster-Shafer Scheme in a Diagnostic Expert System Shell," Anand, T., Biswas, G., Proceedings *of the Third AAAI Workshop on Uncertainty in Artificial Intelligence*, pp. 98-106, July 1987.

PATENTS

1. "Computer System and Computer Implemented Method for Real-time Drug Interaction Checker," D. Rosen, T. Anand, Y., Esterlis, E. Bidell, K. Bradbury, J. Heller, United States 10,026,137. Issued July 17, 2018.
2. "Method and System for Safely Transporting Legacy Data to an Object Semantic Form Data Grid," M. Landy, J. Chou, T. Anand, T. Kaplun, S. Myers, United States 8,832,020. Issued September 9, 2014.
3. "Systems and Methods for Determining Options for Reducing Spend and/or Trend for a Prescription Drug Plan," L. Paul, A. Foley, B. Ezrow, D. Snow, E. Berger, R. Epstein, B. Bird, M. Jacks, T. Anand, V. Caride,. United States 8,112,288. Issued February 7, 2012
4. "Systems and Methods for Determining an Impact on Spend and/or Trend for a Prescription Drug Plan," L. Paul, A. Foley, B. Ezrow, D. Snow, E. Berger, R. Epstein, B. Bird, M. Jacks, T. Anand, V. Caride, United States 8,112,287. Issued February 7, 2012

5. "System and Method for Clinical Strategy for Therapeutic Pharmacies," R. Epstein, T. Anand, R. Anderson, K. Klepper, M. Proulx, United States 7,711,583. Issued May 4, 2010
6. "SQL-Based Analytic Algorithms," T. Miller, B., Tate, J. Hildreth, T. Brye, A. Rollins, J. Pricer, T. Anand, United States 6,687,695. Issued February 3, 2004
7. "SQL-Based Analytic Algorithm for Association," B. Tate, J. Pricer, T. Anand, R. Kerber, United States 6,611,829. Issued August 26, 2003
8. "System and Method for Segmenting a Database Based Upon Data Attributes," J. Knutson, T. Anand, S. Taheri, S. Coulter, K. Copas, United States 5,870,746. Issued August 26, 2003
9. "System and Method for Performing Intelligent Analysis of a Computer Database," Anand, T., G. Wilke, M. Lindsay, R. Schubert, D. Lettington, J. Ludwig, United States 5,832,496. Issued November 3, 1998
10. "Hypertext Markup Language (HTML) Extensions for Graphical Reporting Over an Internet," Y. Hu, T. Anand, United States 5,748,188. Issued May 5, 1998
11. "System and Method for Generating Reports From a Computer Database – Query Management," T. Anand, M. Georgantos, Y. Hu, J. Knutson, D. Lettington, M. Lindsay, A. Meyer, K. O'Flaherty, R. Schubert, P. Selfridge, United States 5,721,903. Issued February 24, 1998
12. "System and Method for Generating Reports From a Computer Database – User Interface," T. Anand, M. Georgantos, Y. Hu, J. Knutson, D. Lettington, M. Lindsay, A. Meyer, K. O'Flaherty, R. Schubert, P. Selfridge, United States 5,710,900. Issued January 20, 1998
13. "System and Method for Generating Reports From a Computer Database – Metadata," T. Anand, M. Georgantos, Y. Hu, J. Knutson, D. Lettington, M. Lindsay, A. Meyer, K. O'Flaherty, R. Schubert, P. Selfridge, United States 5,692,181. Issued November 25, 1997

ONLINE BUSINESS JOURNAL PUBLICATIONS

1. "Should You Centralize Analytics?" Anand, T., https://www.forbes.com/sites/forbestechcouncil/2018/09/07/should-you-centralize-analytics, September, 2018.
2. "The Art of Data Science," Anand, T. https://www.forbes.com/sites/forbestechcouncil/2018/04/03/the-art-of-data-science, April 2018.
3. "When data acts as a force multiplier: A CDO's take," Anand, T., https://enterprisersproject.com/article/2017/12/when-data-acts-force-multiplier-cdos-take , December 2017

4. "Changing IT mindset: CareCentrix CIO's 4-step formula," Anand, T., https://enterprisersproject.com/article/2017/6/changing-it-mindset-carecentrix-cios-4-step-formula , June 2017.
5. "Guiding Leadership Focus using the 40/30/20/10 Principle," Anand, T., http://www.forbes.com/sites/forbestechcouncil/2017/01/12/guiding-leadership-focus-using-the-40302010-principle/, January 2017.
6. "Why Leveraging Technology Is The Key To Improving Healthcare," Anand, T., https://www.forbes.com/sites/forbestechcouncil/2017/01/04/why-leveraging-technology-is-the-key-to-improving-healthcare/, January 2017.

AWARDS AND HONORS

President's Award, Medco Health Solutions, 2006, 2008, 2009, 2010

Chairman's Excellence Award, Medco Health Solutions, 2005

Eureka Award, NCR Corporation/Teradata, 1997

President's Award, Thomas J. Lipton Company (Client of A.C. Nielsen), 1991