

**Curriculum Vitae**  
**Danish Hasnain Saiffee, PhD**  
**Assistant Professor**  
**Department of Decision & Information Sciences**  
**University of Massachusetts Dartmouth**

**Education**

- Ph.D., Management Science with a Concentration in Information Systems, The University of Texas at Dallas, 2018
  - Dissertation successfully defended in June, 2018
  - Dissertation title: Essays on Health Information Technology, Social Media, and Care Quality
  - Dissertation Committee: Vijay S. Mookerjee (Chair), Atanu Lahiri (Co-chair), Indranil R. Bardhan, Zhiqiang (Eric) Zheng
- M. Tech., Instrumentation Engineering, Indian Institute of Technology (IIT) Kharagpur, 2007
- B. Tech. (Honours), Electrical Engineering, Indian Institute of Technology (IIT) Kharagpur, 2007

**Primary Research Interests**

- Business value of AI
- Machine learning (including deep learning)
- Healthcare analytics
- Natural language processing/text analytics
- Applied econometric modeling

**Primary Teaching Interests**

- Business analytics and intelligence (utilizing machine learning—including deep learning—and prompt engineering techniques)
- AI for business
- Application development (front-end, back-end and database programming)

**Programming and Technical Tools:**

- Analytics: Python (statistical modeling, statsmodels and scikit-learn libraries for machine learning, and Tensorflow and PyTorch libraries for deep learning), R (statistical modeling and machine learning), Stata (econometric modeling), SAS (econometric modeling), SPSS/AMOS (structural equation modeling), Microsoft Excel
- Front-end web development: HTML, CSS, Javascript, Flask
- Back-end application development and database management: C#, Java, MySQL

**Select Certifications:**

- Deep Learning (<https://coursera.org/share/47bf22504532b48353e38f5db3dd19db>)

## Honors

- Best Reviewer Award, Crowds, Social Media and Digital Collaborations Track, International Conference on Information Systems 40, 2019
- Best Student Paper Award, 8<sup>th</sup> Conference on Health IT and Analytics, 2017
- Best Conference Paper Award, International Conference for Smart Health, 2017
- Acknowledgment of research study's contribution by the UT-Dallas News Center ([https://www.utdallas.edu/news/2017/4/28-32531\\_JSOM-Study-Analyzes-Health-Care-Quality-IT-Reimbur\\_story-wide.html](https://www.utdallas.edu/news/2017/4/28-32531_JSOM-Study-Analyzes-Health-Care-Quality-IT-Reimbur_story-wide.html))
- Dean's Excellence Scholarship for the year 2017 – 2018
- Fellowship for Doctoral Research from The University of Texas at Dallas

## Published Research Papers

1. "Physician Gender, Patient Risk, and Web-Based Reviews: Longitudinal Study of the Relationship Between Physicians' Gender and Their Web-Based Reviews," D.H. Saiffee, M. Hudnall, U. Raja.
  - Published in *Journal of Medical Internet Research* (Vol. 24, Issue no. 4, 2022).
  - Link: <https://www.jmir.org/2022/4/e31659/>
2. "Are Online Reviews of Physicians Reliable Indicators of Clinical Outcomes? A Focus on Chronic Disease Management," D.H. Saiffee, Z. Zheng, I.R. Bardhan, and A. Lahiri.
  - Published in *Information Systems Research* (Vol. 31, Issue no. 4, 2020).
  - Link: <https://pubsonline.informs.org/doi/abs/10.1287/isre.2020.0945>
3. "Adherence to Clinical Guidelines, Electronic Health Record Use, and Online Reviews," D.H. Saiffee, I.R. Bardhan, A. Lahiri and Z. Zheng.
  - Published in *Journal of Management Information Systems* (Vol. 36, Issue no. 4, 2019).
  - Link: <https://www.tandfonline.com/doi/abs/10.1080/07421222.2019.1661093>
4. "Healthcare Outcomes, Information Technology, and Medicare Reimbursements: A Hospital-level Analyses," D.H. Saiffee, and I.R. Bardhan.
  - Published in *International Journal of Electronic Healthcare* (Vol. 9, Issue nos. 2/3, 2017).
  - Link: <https://www.inderscienceonline.com/doi/abs/10.1504/IJEH.2017.083161>

## Under-review Research Papers

- "Steering the Artificial Intelligence (AI) Race: An Exploration of How Boardroom Dynamics Shape AI Competitive Actions and Performance," Y. Chen, D.H. Saiffee, C. Tian, A. Lahiri. Under review at *Management Information Systems Quarterly*.

## Published Conference Proceedings

1. "Care Quality, Technology Use, and Online Patient Perception." D.H. Saiffee, I. Bardhan, A. Lahiri, and Z.E. Zheng, *Proceedings of the 52nd Hawaii International Conference on System Sciences* (2019).
2. "Physician Quality Reporting and Online Patient Perception." D.H. Saiffee, I. Bardhan, A. Lahiri, and Z.E. Zheng, *Proceedings of the International Conference on Information Systems* (2018).
3. "Do Online Reviews of Physicians Reflect Healthcare Outcomes?" D. H. Saiffee, I. Bardhan, and Z.E. Zheng, *Proceedings of the International Conference on Smart Health* (2017), Springer, Cham.

## Select Conference Presentations

- “Digital Divide and Crowding-Out Effect: A Longitudinal Study of Telemedicine Adoption in Florida,” *Conference on Health IT and Analytics (CHITA)*, Washington D.C., USA, March 2022.
- “Care Quality, Technology Use, and Online Patient Perception,” *Hawaii International Conference on System Sciences (HICSS) 2019*, Maui, HI, USA, January 2019.
- “Physician Quality Reporting and Online Patient Perception,” *International Conference on Information Systems (ICIS) 2018*, San Francisco, CA, USA, December 2018.
- “Care Quality, Technology Use, and Online Patient Perception,” *Conference on Information Systems and Technology (CIST)*, Phoenix, AZ, USA, November 2018 (Dr. Atanu Lahiri presented on my behalf).
- “Healthcare Quality, Technology Use, and Online Patient Perception,” *Conference on Health IT and Analytics (CHITA)*, Washington D.C., USA, October 2018.
- “Are Online Reviews of Physicians Reliable Indicators of Clinical Outcomes?” *Workshop on Information Systems and Economics (WISE)*, Seoul, South Korea, December 2017.
- “Are Online Reviews of Physicians Reliable Indicators of Clinical Outcomes? A Focus on Chronic Disease Management,” *Conference on Health IT and Analytics (CHITA)*, Washington D.C., USA, November 2017.
- “Do Online Reviews of Physicians Reflect Healthcare Outcomes?” *International Conference for Smart Health (ICSH)*, Hong Kong, June 2017 (Dr. Eric Zheng presented on my behalf).
- “Demystifying Online Reviews of Physicians,” *Conference on Information Systems and Technology (CIST)*, Nashville, TN, USA, November 2016.
- “Healthcare Outcomes, Information Technology, and Medicare Reimbursements: A hospital-level analysis,” *Workshop on Health IT and Economics (WHITE)*, Washington D.C. USA, October 2015.

## Experience in Academia (after completion of PhD)

### ➤ *University of Massachusetts Dartmouth*

- Assistant Professor (September 2025 – Present)  
Decision & Information Sciences Department  
Charlton College of Business
  - Responsibilities include working on research, teaching and service
  - Courses taught
    - *Business Intelligence & Knowledge Management* with Python (Fall-25): focused on data collection, data transformation, data aggregation, data visualization and natural language processing (NLP) tasks (e.g. utilizing prompt engineering techniques with large language models) to construct data-driven solutions for business problems
    - *Database Design & Implementation* with MySQL (Fall-25): focused on examining and interpreting components of entity–relationship (ER) diagrams, creating, updating and deleting tables and databases/schemas using SQL, and querying and analyzing data with SQL to answer business and technical questions

### ➤ *The University of Alabama*

- Assistant Professor (August 2018 – May 2025)  
Information Systems, Statistics and Management Science Department  
The Culverhouse College of Business
  - Responsibilities include working on research, teaching and service
  - Courses taught

- *Application Development for the Data-Driven Organization* with Python (Spring-25): focused on data collection, transformation and visualization using Python (e.g. data structures, functional programming, data transformation, data collection and data visualization)
- *Special Topics-Applications of AI in Business* (Spring-25): covers machine learning (and deep learning) algorithms including linear regression, logistic regression, decision trees, random forests, support vector machines, and artificial neural networks, natural language processing using prompt engineering techniques with a LLM such as GPT and case studies of AI applications in business
- *Business Analytics Support Systems/ Decision Support Systems* with Python (Fall-21, Fall-22, Fall-23, Fall-24): focused on analytics and machine learning using Python (e.g. data structures, functional programming, data transformation, data collection, data visualization and machine learning/analytical models)
- *Information Systems Consulting/Systems Development, Implementation/Systems Analysis & Design/Systems Construction Implementation* (Spring-21, Fall-21, Spring-22, Spring-23, Spring-24): involved capstone projects in which groups of students worked on scoping and collecting requirements for their respective projects from clients and then proposed, designed and implemented solutions using different tech stacks that could include various programming languages and frameworks such as HTML, CSS, JavaScript, ReactJS, C#, NodeJS, MySQL, Python and Flask among others.
- *Emerging Information Technologies Seminar* with Python (Fall-20): focused on analytics and machine learning using Python (e.g. data structures, functional programming, data transformation, data collection, data visualization and machine learning/analytical models)
- *Business Programming* with C# (Fall-18, Fall-19, Spring-20, Fall-20, Spring-21): focused on application programming using C# (e.g. algorithms, pseudocode, data structures, functional programming and object-oriented programming)
- *Business Programming* with Java (Spring-19): focused on application programming using Java (e.g. algorithms, pseudocode, data structures, functional programming and object-oriented programming)

### Teaching Experience (while pursuing PhD at The University of Texas at Dallas)

- Instructor (Full Course Responsibility)
  - *Introduction to Management Information Systems* (Spring-15)
  - *Information Technology for Business* (Summer-16, Fall-16, Spring-17, and Spring-18)
  - *Introduction to Programming* with Java (Fall-17)
- Teaching Assistant
  - *Undergraduate Level:* Introduction to Management Information Systems, and Database Systems
  - *Graduate level:* Business Intelligence Software and Techniques, Healthcare Informatics, Information and Knowledge Management in Healthcare, Object Oriented Programming (using Java), Database Foundations, Agile Software Project Management, and Information Technology for Management

### Industry Experience

- *TM International Logistic Ltd. (Division: TKM Global Logistics Ltd.)*
  - Management Trainee, Kolkata, WB, India (June 2007 – November 2007)

- Assistant Manager, Commercial Pricing and Operations Coordination (NVOCC), Kolkata, WB, India (December 2007 – May 2009)
- Assistant Manager, Sales & Marketing, Mumbai, MH, India (June 2009 – October 2010)

➤ *Maersk Global Services*

- Senior Executive, Tender Management Support, Mumbai, MH, India (February 2011 – April 2011)