




# ADITYA KARANAM

UT Austin, McCombs School of Business  
Information, Risk & Operations Management  
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## EMPLOYMENT

**National University of Singapore**, Singapore.

Assistant Professor, Dept. of Information Systems and Analytics 10/2021- (present)

**Indian School of Business**, Hyderabad, TS, India.

Research Associate, Srinu Raju Center for IT & Networked Economy 07/2014-07/2016

**Indian Statistical Institute**, Kolkata, India.

Research Assistant, Biomedical Imaging & Bioinformatics Lab 01/2014 – 06/2014

**Indian Statistical Institute**, Kolkata, India.

Summer Research Fellow, Machine Intelligence Unit 05/2013 – 07/2013

## EDUCATION

**The University of Texas at Austin, McCombs School of Business**

Ph.D. Information Systems 2016-2021

**The University of Texas at Austin**

M.S. Economics (*Field*: Econometrics) 2020

**Birla Institute of Technology & Science (BITS) - Pilani**

M.Sc.(Tech.) Information Technology 2010-2014

*Thesis*: Content Based Medical Image Classification

## RESEARCH INTERESTS

AI-Based Design; Complex Network Analysis; Computational Social Science; Development of deep learning methodologies to derive economic impacts from unstructured data (text, images, & videos)

## RESEARCH

### Manuscripts Under Revision

1. **Aditya Karanam**, Ashish Agarwal, & Anitesh Barua. Designing for Visibility: The Case of Mobile Apps *Conditionally accepted at **Information Systems Research*** ([link](#))
2. **Aditya Karanam**, Deepa Mani, & Rajib Saha Comovement in Technology Partnerships *Under 2<sup>nd</sup> round review at **Management Science*** ([link](#))
3. **Aditya Karanam**, Deepa Mani, & Rajib Saha. Ties that Bind: A Network Approach to Assessing Technology Spillovers from the ICT Industry and their Impact on R&D *Preparing for 2<sup>nd</sup> round review at **Information Systems Research*** ([link](#))

Featured in: [Forbes](#), [ISB Insight](#).

4. **Aditya Karanam**, Ashish Agarwal, & Anitesh Barua. Machine Learning Based Product Design: The Case of Mobile Apps *Target: Management Science* ([Job Market Paper - link](#))

## Manuscripts in Preparation

1. **Aditya Karanam**, Ashish Agarwal, & Anitesh Barua. Extracting Suggestion Features from Noisy User Generated Content Using BERT  
**Best Paper Nomination** at Workshop in Information Technology and Systems , 2020
2. **Aditya Karanam** & Ashish Agarwal. Collusion of Deep Reinforcement Learning Algorithms in First Price Auctions

## PROGRAMMING SKILLS

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**Programming Languages:** Python (intermediate), C (intermediate), Java (beginner)

**Econometrics:** R (intermediate), STATA (intermediate), SAS (intermediate), MATLAB (beginner)

**Big Data & Machine Learning:** SQL, MongoDB, Hadoop, Python (Tensorflow, PyTorch, Scikit-Learn, Numpy, Pandas, etc.)

## TEACHING EXPERIENCE

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### Instructor

UT Austin, McCombs School of Business

MIS 301 Introduction to Information Management (undergraduate core course) Fall, 2019

Instructor Evaluation 4.7/5.0

*Nominated for the Fred Moore Teaching Excellence Award*

### Teaching Assistant

UT, Austin, McCombs School of Business

MSBA User Generated Content Analysis Fall 2016, Fall 2017

MSBA Social Media & Network Analytics Spring 2017

STA 301 Introduction to Data Science Fall 2020

## AWARDS & FELLOWSHIPS

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1. **Kauffman Best Student Paper Nomination.** ICIS, 2021
2. **McCombs Research Excellence Grant of USD 10,000 .** 2021
3. **Best Paper Nomination.** WITS, 2020
4. **Nominated for Fred Moore Teaching Excellence Award.** 2020
5. **McCombs Dean's Fellowship.** 2016-2020
6. **Indian Academy of Sciences, Summer Research Fellowship.** 2013
7. **Merit Cum Need Scholarship, BITS, Pilani.** 2010-2014

## RESEARCH TALKS

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### Refereed Conference Proceedings

1. Aditya Karanam, Ashish Agarwal and Anitesh Barua (2021), "Machine Learning Based Product Design: The Case of Mobile Apps", **International Conference on Information Systems Proceedings**, Austin, Tx (**Kauffman Best Student Paper Nomination**).
2. Aditya Karanam, Ashish Agarwal and Anitesh Barua. (2020), "Extracting Suggestion Features from Noisy User Generated Content Using BERT", **Workshop in Information Technology and Systems (Best Paper Nomination)**.
3. Aditya Karanam, Ashish Agarwal and Anitesh Barua (2018), "Designing for Visibility and Sharing: The Case of Mobile Apps", **International Conference on Information Systems Proceedings**, Paper 23.

### Other Conferences

1. Aditya Karanam, Ashish Agarwal and Anitesh Barua. (2020), "Designing New App Features: Imitate, Innovate or Follow the Crowd", **Sixteenth Symposium on Statistical Challenges in eCommerce Research**, Spain, June 18-19.
2. Aditya Karanam, Ashish Agarwal and Anitesh Barua. (2019), "Extracting Information from User Generated Content based on Named Entity Recognition Techniques", **Statistical Challenges in eCommerce Research**, Hong Kong, June 14-16.
3. Aditya Karanam, Ashish Agarwal and Anitesh Barua (2018), "Designing for Visibility: The Case of Mobile Apps", **Statistical Challenges in eCommerce Research**, Rotterdam, June 10-12.
4. Aditya Karanam, Ashish Agarwal and Anitesh Barua (2017), "Designing for Visibility: The Case of Mobile Apps", **Workshop in Information Systems and Economics**, Seoul, December 12-14.

### Invited Seminars

1. Center for Analytics and Transformative Technologies, UT Austin, TX, US. 03/2021

## SERVICE TO PROFESSION

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1. Reviewer
  - (a) Management Science Since 2019
  - (b) Management Information Systems Quarterly (MISQ) Since 2019
  - (c) International Conference on Information Systems (ICIS) Since 2020
2. Organizing and/or Chairing Sessions
  - (a) 31<sup>st</sup> International Conference on Information Systems (ICIS), SFO, Cal, USA. 12/2018  
*Session Chair: Social Media and Digital Collaboration*