




# ADITYA KARANAM

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## EMPLOYMENT

**National University of Singapore**, Singapore.

Assistant Professor, Dept. of Information Systems and Analytics 12/2021- (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

### Journal Publications

1. **Aditya Karanam**, Ashish Agarwal, & Anitesh Barua. Design for Social Sharing: The Case of Mobile Apps *Forthcoming at Information Systems Research* ([link](#))

### 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**.

## Manuscripts Under Revision/Preparation

1. **Aditya Karanam**, Deepa Mani, & Rajib Saha. Technological Relatedness to the ICT Industry and Its Impact on Innovation Performance and Competitive Intensity (*3<sup>rd</sup> round revision at Information Systems Research*) ([link](#))  
Featured in: [Forbes](#), [ISB Insight](#).
2. **Aditya Karanam**, Ashish Agarwal, & Anitesh Barua. Follow Your Hear or Listen to Users? The Case of Mobile App Design (*2<sup>nd</sup> round revision Information Systems Research*) ([Job Market Paper - link](#))
3. **Aditya Karanam**, Deepa Mani, & Rajib Saha Comovement in Technology Partnerships *Preparing for SMJ* ([link](#))
4. **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
5. **Aditya Karanam** & Ashish Agarwal. Collusion of Deep Reinforcement Learning Algorithms in First Price Auctions
6. **Aditya Karanam**, Ashish Agarwal& Anitesh Barua. Promotional Signals for Platform Content Generation

## Papers in Refereed Workshops

1. Eugene Lim and Aditya Karanam (2023), "Artificial Intelligence, Collusion and Auctions", **AAAI Summer Symposium on AI4FinTech**, Singapore, July 18-19.
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 (2017), "Designing for Visibility: The Case of Mobile Apps", **Workshop in Information Systems and Economics**, Seoul, December 12-14.
4. 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.
5. 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.
6. 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.

## PROGRAMMING SKILLS

**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

#### NUS, School of Computing

**IS 4242** Intelligent Systems & Techniques (undergrad elective course) Fall 2024

**BT 3102** Computational Methods for Business Analytics (undergraduate core course) 2022, 2023

#### UT Austin, McCombs School of Business

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

*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. **NUS Research Grant of 180,000 SGD (130K USD)** 2021
2. **Kauffman Best Student Paper Nomination** ICIS, 2021
3. **McCombs Research Excellence Grant of 10,000 USD** 2021
4. **Best Paper Nomination** WITS, 2020
5. **Nominated for Fred Moore Teaching Excellence Award** 2020
6. **McCombs Dean's Fellowship** 2016-2020
7. **Indian Academy of Sciences, Summer Research Fellowship** 2013

## RESEARCH TALKS

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### Invited Seminars/Conference Presentations

1. Centre for Software & Information Technology Management, Indian Institute of Management, Bangalore, India. 11/2022
2. National University of Singapore, Singapore 05/2021
3. Center for Analytics and Transformative Technologies, UT Austin 03/2021
4. W.P. Carey School of Business, Arizona State University 02/2021
5. David Eccles School of Business, The University of Utah 02/2021
6. Mays Business School, Texas A&M University 01/2021

## SERVICE TO PROFESSION

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1. Reviewer

- (a) Management Science Since 2019
- (b) Information Systems Research Since 2020
- (c) Management Information Systems Quarterly (MISQ) Since 2019
- (d) 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*
  - (b) Program Committee Member CIST 2022, CIST 2023