




ADITYA KARANAM

Department of Information Systems and Analytics
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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

My research aims at building market intelligent programs that can provide actionable insights for product developers. To this end, I develop and/or apply custom models from Deep Learning, Natural Language Understanding, Econometrics, Microeconomic theory, and Industrial Organization.

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 2nd 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 2nd 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

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

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

1. **NUS Research Grant of 180,000 SGD for analyzing consumer insights and social media sharing** 2021
2. **Kauffman Best Student Paper Nomination** ICIS, 2021
3. **McCombs Research Excellence Grant of USD 10,000** 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
8. **Merit Cum Need Scholarship**, BITS, Pilani 2010-2014

RESEARCH TALKS

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

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) 31st International Conference on Information Systems (ICIS), SFO, Cal, USA. 12/2018
Session Chair: Social Media and Digital Collaboration