

## ABHIMANYU GUPTA

Instructor, CSB, St. Louis University and Co-founder & CTO, Testing Algorithms, LLC

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### EDUCATION

Ghent University, Ghent, Belgium

**Doctor of Philosophy (Ph.D.)**, 2017-*In Progress* (Expected Completion: June 2022)

Indian Statistical Institute, Kolkata, India

**Master of Statistics (M.Stat.)**, 1998-2000, Biostatistics and Data Analysis

University of Calcutta, Kolkata, India

**Bachelor of Science (B.Sc.)**, 1995-1998, Statistics

### EXPERIENCE SUMMARY

- Five years of experience in teaching Statistics, Business Analytics, Business Data Mining and Database Management at Richard A. Chaifetz School of Business (formerly John Cook School of Business) at Saint Louis University.
- 17 years of total IT experience with experience in Project Management and Test Management
- More than 10 years of experience in Test Management for Waterfall, Iterative & Agile projects
- Experience in leading a Testing Center of Excellence containing 200+ associates, including onsite & offshore, owning testing (manual, automation & performance) activities for 50+ projects running concurrently
- Expertise in Testing Processes, Test Optimization and Test Metrics
- Author of multiple technical papers on test optimization techniques and test metrics that uses concepts from mathematics and statistics in software testing
- Experience in handling testing projects from Finance, Insurance & Healthcare domains
- Six Sigma Green Belt certified

### INFORMATION TECHNOLOGY SKILLS

Programming Languages

R, Python, Visual Basic, C, C++, C#, JavaScript

Software Tools

Tableau, IBM Watson, MATLAB, Quality Center, Model Based Testing Tools, Testing Algorithms

## SOFTWARE DEVELOPMENT

**Testing Algorithms** - A testing software to create optimized test cases

**Statsbuddy** - Supports R code generation of 30 data analytics techniques and is used by more than 1000 monthly regular users around the world, with a total of 10000 visits per month.

## COMMUNITY COURSE DEVELOPMENT AND INITIATIVES

- Organized Data Literacy Workshop to provide education on Data Analytics and Machine Learning to working professionals who want to advance their career in data analytics. The workshop was a collection of courses that were provided online (<https://coursecraft.net/users/cKx3>, <https://coursecraft.net/courses/z9ZGG/>, <https://coursecraft.net/courses/z93PC>). In 2020, more than 300 professionals enrolled in this course
- Under Mr. Gupta's guidance, 30 of his students have initiated a data analytics club. The club has regular activities (e.g. guest lectures from the industry). The club has benefitted students in sharing their data analytics experience.
- Created an YouTube channel to promote data analytics insights. ([https://www.youtube.com/channel/UCUISM80lYaewII\\_XxyQYK0A](https://www.youtube.com/channel/UCUISM80lYaewII_XxyQYK0A))

## APPOINTMENTS

Role	Organization	Timeline
Instructor	Richard A. Chaifetz School of Business - Saint Louis University	Aug 2018 – Present
Mentor - OYMBA Data Analytics Practicum	Richard A. Chaifetz School of Business - Saint Louis University	Jan 2019 – Present
Co-founder & CTO	Testing Algorithms, LLC	Oct 2015 – Present
Research Scientist	Ghent University	Oct 2017 – Mar 2020
Adjunct Instructor	Richard A. Chaifetz School of Business - Saint Louis University	Jan 2017 – Jul 2018
Business Test Analyst	Wells Fargo Advisors, LLC	May 2016 – Sep 2017
QA Strategist	Equifax, Inc.	Sep 2015 – Apr 2016
Project Manager	Infosys Limited.	Jul 2012 – Aug 2015
Senior Project Manager	Cognizant Technology Solutions Corp	Nov 2006 – Jun 2012
IT Analyst	Tata Consultancy Services Limited	Sep 2004 – Oct 2006
Associate	Cognizant Technology Solutions Corp	Jul 2000 – Aug 2004

## **JOURNAL PAPERS UNDER REVIEW**

1. Gupta, A., Poels, G., and Bera, P. (2021) Using Conceptual Models in Agile Software Development: A Possible Solution to Requirements Engineering Challenges in Agile Projects (under review at **Data and Knowledge Engineering**)
2. Gupta, A., Poels, G., and Bera, P. (2021) An Agent-Based Framework for Developing Multiple Conceptual Models from Extended User Stories (under review at **Data and Knowledge Engineering**)

## **REVIEWED CONFERENCE PROCEEDINGS**

1. Gupta, A, Poels, G., Bera, P. (2017) Developing Test Cases Using ER Based Approach, 6th (2017) AIS Special Interest Group on Systems Analysis and Design Symposium, Cincinnati, OH, USA
2. Gupta, A, Bera, P. (2017) A Proposed Method in Agile Practices to Create Requirements Documentation and Test Cases, Exploring Modeling Methods for Systems Analysis and Development 2017, Essen, Germany
3. Gupta, A, Poels, G., Bera, P. (2018) A Research Agenda on Using Conceptual Models for User Story Development, Midwest Association of Information Systems 2018, St. Louis, MO, USA
4. Gupta, A, Poels, G., Bera, P. (2018) A Proposal of Using Conceptual Models for User Story Development and Maintenance, 17th (2018) AIS Special Interest Group on Systems Analysis and Design Symposium, Syracuse, NY, USA
5. Gupta, A, (2019) Generation of Multiple Conceptual Models from User Stories in Agile, 25<sup>th</sup> (2019) International Working Conference on Requirements Engineering: Foundation for Software Quality, Essen, Germany
6. Gupta, A, Bera, P. (2019) A Software Tool to Convert Requirements to Test Cases, 6th International Workshop on Requirements Engineering and Testing. Montréal, QC, Canada.
7. Gupta, A, Poels, G., Bera, P. (2019) An Algorithm to Create Multiple Conceptual Models from User Stories, 2019 Systems Analysis and Design (SIGSAND) Symposium, Baruch College, New York City, NY
8. Gupta, A, Poels, G., Bera, P. (2019) Creation of Multiple Conceptual Models from User Stories: A Natural Language Processing Approach, Nov 4-7, 2019, 38th International Conference on Conceptual Modeling, Salvador, Bahia, Brazil

## **WORKING RESEARCH PAPERS**

1. Gupta, A., Poels, G., and Bera, P. (2021) A Python Based Tool to Develop Multiple Conceptual Models Automatically from Extended User Stories
2. Gupta, A., Poels, G., and Bera, P. (2021) Testing the Usefulness of Multiple Conceptual Models from Extended User Stories

3. Bera, P., Gupta, A. and Poels, G. (2021) How Helpful are Multiple Conceptual Models from Extended User Stories? A Laboratory Study
4. Bera, P. and Gupta, A. (2021) Teaching Business Analytics Using R: An Alternate Method

### **COURSES TAUGHT AT CSB**

<b>Course</b>	<b>Level</b>	<b>Course Title</b>	<b>Semester</b>
ITM 3700	Undergraduate	Business Analytics	SP 2017, SP 2018, SP 2019, SP 2020, SP 2021, FL 2021
OPM 5020	Graduate	Applied Business Statistics	SP 2017
OPM 2070	Undergraduate	Intro: Business Statistics	FL 2017, SP 2018, FL 2018, SP 2019, FL 2019, SP 2020, FL 2020
ITM 3300	Undergraduate	Database Management Systems	FL 2017, FL 2018, FL 2019, FL 2020
MBA-6004	Graduate	Managing Mkts, Consumers & Comp	SU 2018, SU 2019
MBA-6005	Graduate	Leading People & Organizations	SU 2018, SU 2019
ITM 6400	Graduate	Applied Business Analytics	FL 2018, FL 2019, SU 2020, FL 2020, SP 2021, SU 2021, FL 2021
ITM 4700	Undergraduate	Business Data Mining	SP 2019, SP 2020, FL 2020, SP 2021, FL 2021
MBA 5930-01	Graduate	Accounting, Data Preparation	SU 2020, SU 2021
MBA 5930-02	Graduate	Advanced Analytics	SU 2020, SU 2021
BTM 4811	Undergraduate	Data Analytics Practicum	FL 2021
ITM 6930	Graduate	Advanced Data Analytics	FL 2021

### **AWARDS & RECOGNITIONS**

1. Graduate Business Faculty of the Year, 2020-2021, Richard A. Chaifetz School of Business - Saint Louis University
2. Emerson Excellence in Teaching Award, October 2021, Emerson Electric Company