

Savita Ramaprasad

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EDUCATION

University at Albany, SUNY, PhD, Economics (Econometrics)
IIT Kanpur (Kanpur, India), Integrated M. Sc., Economics

Aug '12 – Present
Aug '07 – May '12

Courses: Time Series Analysis (A⁻), Applied Economics (A⁻), Linear Algebra (8/10), Programming Tools and Techniques (10/10), Mathematical Modeling (10/10), Probability and Statistics (8/10), Fundamentals of Computing (8/10)

Online Courses: Machine Learning, Statistical Inference, The Data Scientist's Tool Box

TECHNICAL SKILLS

- R, Python (proficient); SQL, MATLAB/Octave, UNIX/Linux (competent); Java, C++ (familiar)

QUANTITATIVE & PROGRAMMING EXPERIENCE

Effect of California's Paid Family Leave on fertility, birth outcomes and immunizations
Graduate Researcher, University at Albany, SUNY

- Found using a difference-in-differences methodology that the paid family leave did not affect births, immunizations or their timing but reduced the share of preterm births by 2.9%
- Tackled the problem of correlation among errors within states using Webb Cluster Bootstrap to obtain statistical significance of the effect
- Wrote [R package](#) for the Webb Cluster Bootstrap method

Empirical investigation of the effect of ride sharing availability on alcohol-related motor vehicle crashes
Graduate Researcher, University at Albany, SUNY

- The aim is to find the causal effect of ride sharing services in Chicago on alcohol-related motor vehicle crashes using Illinois crash data. This is a work in progress.

Data Science Projects: Take-home Challenges and Kaggle

- Predicted conversion for an online store using logistic regression, evaluated model using true positive rate and false positive rate and drew insights on how to increase conversion
- Analyzed A/B test results of introduction of localized Spanish translation on an e-commerce site using appropriate t-tests and concluded that it was not negative as initially proposed
- Explained why employees quit using feature engineering, decision trees and visualizations
- Predicted fraud in an online store using Random Forests, evaluated the model using a ROC curve and found important variables that predict fraud
- Devised a metric to identify best ad group and used time series modeling to predict future number of ads
- Predicted house prices using ridge and lasso linear regression models with test error being ~0.1 for both

TEACHING & LEADERSHIP EXPERIENCE

Instructor, *Principles of Economics I: Microeconomics*, University at Albany, SUNY Fall '15 & Spring '16

- End-to-end responsibility of the course from syllabus to exam papers for a class of ~90 undergraduates

Instructor, *Tools of Economics*, University at Albany, SUNY Spring '15

- Taught, supervised, held office hours and graded a class of ~30 undergraduates

Teaching Assistant, University at Albany, SUNY Spring '14 & Fall '14

- Tutored undergraduate students for intermediate Microeconomics & Macroeconomics
- Managed and updated the Economics department website