Savita Ramaprasad

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EDUCATION

University at Albany, SUNY, PhD, Economics (Econometrics)   Aug '12 – Apr '19 (Expected)
IIT Kanpur (Kanpur, India), Integrated M. Sc., Economics   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); pandas, SQL, UNIX/Linux (competent)
- Hypothesis Testing, Probability, Causal Inference
- Linear/logistic regression, Random Forests, Gradient Boosting

QUANTITATIVE & PROGRAMMING EXPERIENCE

Ride-share and motor-vehicle crashes (paper link)
Graduate Researcher, University at Albany, SUNY   Jan '18 – Present

- Found that ride-share entry in Illinois is associated with a 55% decrease in nighttime fatal crashes per month in the first 3 months which is a reduction of around 0.43 fatal crashes
- Isolated the impact by controlling for variables influencing entry of ride-share or alcohol-related crash rate, city and time fixed effects and city-specific linear time trend.

Data Science Projects on Prediction and Analysis of Experiments (project links)   Aug '17 - Dec '17

- Predicted house prices using lasso linear regression models with mean and median absolute percentage error being 6.5% and 10.8% respectively
- Identified factors contributing to conversion in an online store using logistic regression, evaluated model using true positive rate and false positive rate and used model to draw insights to increase conversion
- Disproved the incorrect initial conclusion that conversion for an e-commerce site decreased due to the introduction of localized Spanish translations, using country level chi-squared tests to re-evaluate the A/B test results
- Modeled the likelihood of fraud in an online store using Random Forests. Used the model and data visualizations to identify important predictors of fraud namely (i) week of purchase, (ii) time interval between sign-up and purchase time and (iii) presence of multiple accounts on the same device

Effect of California's Paid Family Leave on fertility rate
Graduate Researcher, University at Albany, SUNY   Jan '15 – Jun '17

- Found using a difference-in-differences methodology and the synthetic control method that the paid family leave did not affect fertility rates
- Implemented R package for the Webb Cluster Bootstrap method to tackle the problem of correlation among errors within states to obtain statistical significance of the effect

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