

Savita Ramaprasad

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EDUCATION

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

Aug '12 – Feb '20
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, Neural Networks and Deep Learning

TECHNICAL SKILLS

- Languages/Frameworks: Python, R, TensorFlow, pandas, Spark, SQL, AWS
- Statistics: Hypothesis testing, Causal Inference
- Machine learning: Linear/Logistic regression, Random Forests, Gradient Boosting, Neural Networks

QUANTITATIVE & PROGRAMMING EXPERIENCE

Data Science Projects on Prediction and Analysis of Experiments ([project links](#))

- 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
- 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
- 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
- Built Neural Network models to classify images of clothing using the Fashion MNIST dataset

Rideshare and alcohol-related crashes ([paper link](#))

Graduate Researcher, University at Albany, SUNY

- Established that ride-share entry in Illinois is not associated with a reduction in alcohol-related crashes
- Isolated the impact by controlling for variables influencing entry of ride-share or crash rate, city and time fixed effects and city-specific linear time trend.

Effect of California's Paid Family Leave on Fertility Rate and Timing of Vaccinations

Graduate Researcher, University at Albany, SUNY

- Found using a difference-in-differences methodology and the synthetic control method that California's paid family leave (i) did not affect fertility rates (ii) increased the probability of infants having all the required vaccines and (iii) decreased the number of days for which infants were under-vaccinated
- 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