

# Savita Ramaprasad

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## EDUCATION

**University at Albany, SUNY**, PhD, Economics (Econometrics)

Aug '12 – Feb '20

**IIT Kanpur** (Kanpur, India), Integrated M. Sc., Economics

Aug '07 – May '12

**Courses:** Time Series Analysis (A<sup>-</sup>), Applied Economics (A<sup>-</sup>), 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/Libraries: Python, R, SQL; TensorFlow, pandas, matplotlib
- Statistics: Hypothesis Testing, Causal Inference
- Linear/Logistic regression, Random Forests, Gradient Boosting, Neural Networks

## QUANTITATIVE & PROGRAMMING EXPERIENCE

Machine Learning Consultant – Whai Technologies, Inc.

Jan 5 – 20, '21

- Research, develop and document novel algorithms related to decision trees

Data Science Immersion Program – Wayfair Inc.

May 6 – 10, '19

- Built interpretable model to predict daily demand for products on Wayfair.com and make price recommendations, as part of a team of 5
- Presented the findings to technical and non-technical stakeholders at Wayfair

Graduate Researcher – University at Albany, SUNY

Jan '14 – Aug '19

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

- 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*

- 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

## DATA SCIENCE PROJECTS

*Prediction and Analysis of Experiments* ([project links](#))

- Predicted house prices with mean and median absolute percentage error being 4.2% and 3.5% respectively
- 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 Feed Forward models to classify images of clothing using the Fashion MNIST dataset