

Manya Malik

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Economics graduate with 4 years of professional experience in research and quantitative modeling. Strong academic and professional background in economics, statistics and policy.

Education

University of Washington, Seattle | PhD Economics | Seattle, WA *Sep 2020 - Present*

Coursework: Causal Inference, Advanced Microeconomics, Auction Theory, Econometric Theory, Statistics, Macroeconomics, Applied Micro-econometrics, Forecasting with Big Data

Delhi School of Economics | Master of Arts in Economics | Delhi, India *Jun 2016*

Hans Raj College, University of Delhi | Bachelor of Arts in Economics | Delhi, India *May 2014*

Work Experience

Asian Development Bank | Independent Consultant | Seattle *Jun - Sep 2023*

- Systematic review of literature to study measurement issues related to Covid-19 health outcomes

Harvard T.H. Chan School of Public Health | Research Assistant | Boston *Jun 2022 - Jun 2023*

- Worked on a novel framework for estimating the value of vaccines and built a tool for its application
- Built a Python dashboard tool to assess epidemiological and economic implications of Covid-19 vaccine rollout

Department of Economics, UW, Seattle | Graduate Instructor | Seattle *Sep 2020 - Present*

- Teaching introductory microeconomics to 50+ undergraduate students and responsible for curriculum design

International Initiative for Impact Evaluation | Research Associate | Delhi *Jul 2019 - Aug 2020*

- Assisted the Executive Director in prioritizing funds to low-income countries to build their research capacity
- Generated an Evidence Gap Map on the use of big data for measuring policy impact

Reserve Bank of India | Research Associate, Policy Research | Mumbai *Aug 2018 - Jul 2019*

- Constructed a high frequency inflation index for India by web-scraping prices for 40,000 commodities and real estate from online platforms to create a basket of goods

@WalmartLabs | Statistical Analyst | Bangalore *Aug 2016 - Jul 2018*

- **Crystal – “Demand Forecasting Under Supply Chain Analytics”**
 - Deployed time series models on Hadoop cluster to generate sales forecasts for stores across US
 - Incorporated external variables in the model to integrate insights from weather predictions, holidays, and local events, thereby improving the forecast accuracy at replenishment level
 - Used classification techniques to identify the best set of items for demand forecasting application
 - Built Tableau dashboards for visualization and evaluation of models based on pre-defined performance metrics
 - Techniques used: **Holt-Winters, ARIMA, LASSO, Exponential Smoothing**
- **Walmart Customer Pulse – “Leverage Social Chatter for Customer Insights”**
 - Monitored customer store reviews from sources such as Google and Facebook to identify areas of development, amongst price, quality and convenience
 - Identified top customer concerns within each area using topic modelling
 - Techniques used: **LDA, Multiclass classification algorithms such as KNN**

Skills

Languages and Tools: R, Stata, Python, SQL, Excel, LaTeX

Research/Publications

“Value of Health and Longevity Around the World”, Harvard T.H. Chan School of Public Health *Present*

- Using a modelling approach to provide age specific monetary estimates of the value of reductions in mortality risks

CEDIL Working Paper: Using big data for evaluating development outcomes: a systematic map *2020*

- Examined methodological, ethical and practical constraints relating to the use of big data sources in policy research
- Analyzed over 437 impact evaluation and big data measurement studies to identify existing gaps in the research literature

Honors & Awards

- James O. York Fellowship, UW Seattle *2020*