

Asif Rasool

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SUMMARY

Applied researcher with a Ph.D. in Quantitative Economics and Econometrics and a current OMSCS student specializing in AI and Machine Learning. Over five years of experience applying advanced econometric, statistical, and mixed-methods approaches to real-world problems, with expertise in predictive modeling, forecasting, causal inference, and A/B testing. Passionate about making research accessible to the public.

EDUCATION

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|-------------|---|------------------------------|
| 2025 – 2029 | M.Sc. in Computer Science (OMSCS) Georgia Institute of Technology, Atlanta, GA Specialization: Machine Learning and Artificial Intelligence | Expected: Spring 2029 |
| 2018 – 2023 | Ph.D. in Quantitative Economics & Econometrics Pennsylvania State University, State College, PA Specialization: Econometrics, Energy & Resource Economics, Industrial Organization | GPA: 3.7/4.0 |
| 2016 – 2018 | M.Sc. in Applied Economics Utah State University, Logan, UT | GPA: 3.8/4.0 |

WORK EXPERIENCE

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|---|----------------------|
| Research Scientist, Southeastern Louisiana University | Feb 2025 - Present |
| – Lead research on regional economics and business development. – Build econometric / economic / advanced statistical models for forecasting and policy analysis. – Write grants and publish research findings. | |
| Senior Economist, State of New Mexico Tax and Rev. | Jul 2023 – Oct 2024 |
| – Developed predictive, econometric, and ML models for revenue forecasting. – Wrote Fiscal Impact Reports on 20+ legislative bills; evaluated state bond proposals. | |
| Graduate Research Assistant, Penn State and Utah State University | Aug 2016 - July 2023 |
| – Conducted research on US agriculture, climate change, public finance and authored academic papers. – Presented research findings to external partners in conferences. | |

PROJECTS

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|--|----------------------|
| SmartField-LA | Demo |
| – Built a web and mobile tool that helps Louisiana farmers detect crop diseases from photos. – Partnered with local growers to tailor the system to real farm conditions. – Secured Google Research Credits and applying for a grant to expand the app using local image data. | |

Signals & Sales: Marketing Mix Model

[Demo](#)

- Developed a tool for small and medium Northshore businesses to apply advanced statistical and ML methods to allocate marketing budgets more efficiently.

Quantifying the Economic Ripple Effects

[Demo](#)

- Developed an interactive web platform that enables the public to run their own economic impact studies using SAM-based Input–Output modeling and benefit transfer valuation. This tool quantifies both market and non-market returns from public investments, including employment, output, and social value.

LionIDE

[Demo](#)

- Developed an interactive analytics platform at the Business Research Center to visualize and compare economic data across Louisiana parishes, states, and global regions.
- The university plans to make the platform publicly available to support regional and academic research.

PUBLICATIONS

Peer-Reviewed

- Rasool, A. (2023). *Heterogeneity in U.S. Farms: A New Clustering by Production Potentials*. *Agriculture*, 13(2), 258. <https://doi.org/10.3390/agriculture13020258>

Other Publications and Reports

- Rasool, A. (2025). *Beyond Books: Estimating the Economic and Social Impact of the Livingston Parish Library*. Business Research Center, College of Business, Southeastern Louisiana University. Available at: [Project Report Link](#).

For a complete list of publications, visit: [Google Scholar profile](#).

ACADEMIC SERVICE & MEMBERSHIP

- Reviewed interdisciplinary research manuscripts for peer-reviewed academic journals.
- Member, American Economic Association (AEA).

SKILLS

Programming

Python, R, GAMS, Julia

Machine Learning / AI

Scikit-learn, TensorFlow, Keras, PyTorch, LangChain

Data Analysis & Visualization

Pandas, NumPy, Statsmodels, Plotly, Matplotlib, Seaborn

Econometrics / Modeling

Causal inference, forecasting, panel & time-series models, A/B testing

Cloud & Deployment

Google Cloud Platform (Cloud Run, Cloud Build, Firebase), Docker, Git

Web & App Development

Streamlit, React, FastAPI

Tools & Frameworks

IMPLAN, ArcGIS, Stata, LaTeX, GitHub