

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

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

Research Scientist, Southeastern Louisiana University	Feb 2025 - Present
<ul style="list-style-type: none">– 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
<ul style="list-style-type: none">– 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
<ul style="list-style-type: none">– Conducted research on US agriculture, climate change, public finance and authored academic papers.– Presented research findings to external partners in conferences.	

PROJECTS

SmartField-LA	Demo
<ul style="list-style-type: none">– 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