

# Asif Rasool

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## SUMMARY

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

## WORK EXPERIENCE

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<b>Research Scientist, Southeastern Louisiana University</b>	Feb 2025 - Present
<ul style="list-style-type: none"><li>– Lead research on regional economics and business development.</li><li>– Build econometric / economic / advanced statistical models for forecasting and policy analysis.</li><li>– Write grants and publish research findings.</li></ul>	
<b>Senior Economist, State of New Mexico Tax and Rev.</b>	Jul 2023 – Oct 2024
<ul style="list-style-type: none"><li>– Developed predictive, econometric, and ML models for revenue forecasting.</li><li>– Wrote Fiscal Impact Reports on 20+ legislative bills; evaluated state bond proposals.</li></ul>	
<b>Graduate Research Assistant, Penn State and Utah State University</b>	Aug 2016 - July 2023
<ul style="list-style-type: none"><li>– Conducted research on US agriculture, climate change, public finance and authored academic papers.</li><li>– Presented research findings to external partners in conferences.</li></ul>	

## PROJECTS

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<b>SmartField-LA</b>	<a href="#">Demo</a>
<ul style="list-style-type: none"><li>– Built a web and mobile tool that helps Louisiana farmers detect crop diseases from photos.</li><li>– Partnered with local growers to tailor the system to real farm conditions.</li><li>– Secured Google Research Credits and applying for a grant to expand the app using local image data.</li></ul>	

## 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

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### 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

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

## SKILLS

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<b>Programming</b>	Python, R, GAMS, Julia
<b>Machine Learning / AI</b>	Scikit-learn, TensorFlow, Keras, PyTorch, LangChain
<b>Data Analysis &amp; Visualization</b>	Pandas, NumPy, Statsmodels, Plotly, Matplotlib, Seaborn
<b>Econometrics / Modeling</b>	Causal inference, forecasting, panel & time-series models, A/B testing
<b>Cloud &amp; Deployment</b>	Google Cloud Platform (Cloud Run, Cloud Build, Firebase), Docker, Git
<b>Web &amp; App Development</b>	Streamlit, React, FastAPI
<b>Tools &amp; Frameworks</b>	IMPLAN, ArcGIS, Stata, LaTeX, GitHub