

# David McDevitt

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## EDUCATION AND SKILLS

**Northwestern University**, Evanston, IL  
Master of Science in Artificial Intelligence

*September 2022-December 2023*  
GPA: 3.7/4.0

**Northeastern University**, Boston, MA  
Bachelor of Science in Economics, Bachelor of Arts in International Affairs

*September 2013-December 2017*  
GPA: 3.5/4.0

**Publications and Conferences:** Isolating Child Speech using Vision Transformer; Conference on Motor Speech and Signal Analytics (February 2024)

**Certifications:** Google Cloud Certified Professional Machine Learning Engineer (January 2024); NVIDIA Jetson AI Specialist (January 2024)

**Languages and Applications:** Python, GCP, AWS, Azure, Pytorch, TensorFlow, SQL, OpenCV, Librosa, R, Red Hat, MATLAB, Stata, MS Suite

## WORK EXPERIENCE

**PEDZSTAR**, Pediatric Speech Technologies Researcher, Evanston, IL

*February 2023-January 2024*

- Leveraged AI-based audio processing techniques for spectrogram analysis and feature extraction of waveform data, significantly enhancing research methodologies in child speech development studies.
- Developed a vision transformer-based cleaning pipeline, enabling precise isolation and analysis of child speech and notably improving evaluation data quality.
- Architected and maintained a Red Hat database for pediatric speech data, serving as the primary data custodian and facilitating streamlined research accessibility and collaboration.

**Circana**, Associate, Strategic Analytics, Chicago, IL

*May 2021-January 2023*

- Managed a comprehensive, multi-year forecasting engagement for a top household and kitchen products manufacturer, adeptly fulfilling the role of analytics lead and primary liaison between the client's business units and IRI's commercial and technical teams.
- Served as the key analytics expert for projects focused on in-store display optimization, including a large scale study for a multinational drink and brewing company examining in-store display saturation, volume, and location impacts on sales with an annual revenue contribution of \$1.2M.
- Developed and implemented an innovative online platform, automating a suite of R and Python-based analytics tools, which enhanced the usability for members within the Strategic Analytics practice who had limited coding proficiency.

**Charles River Associates**, Associate, Antitrust & Competition Practice, Chicago, IL

*January 2020-May 2021*

- Conducted analysis and constructed exhibits to support expert testimony in litigation pertaining to regulation in the telecommunications, healthcare, and retail commodities sectors.
- Improved cross-functional communication acting as the primary data resource for counsel, client, and expert, managing data processes and anticipating resources needed to answer stakeholder inquiries regarding over 1.5 billion call records in two active TCPA compliance cases.
- Distilled multiple years of transaction data and applied economic theory to construct a comprehensive damages model for breach of contract litigation in the artificial turf industry.

**Global Poverty Research Lab**, Research Analyst for Dean Karlan, Evanston, IL

*February 2018-January 2020*

- Translated data insights into publication-ready tables and graphs for four academic papers on development interventions, and wrote fully replicable scripts in Stata and R for all data cleaning and analysis tasks.
- Constructed linear models highlighting the impact of a microcredit program on loan repayment behavior in Colombia.
- Managed recruitment and coordination processes with four implementation partners for a randomized controlled trial examining the efficacy of commitment contracts on smoking cessation habits.

## VOLUNTEER

**Tastemakers Magazine**, Boston, MA  
President, May 2016-December 2017

**Sofar Sounds**, Chicago, IL  
Ambassador, May 2018-October 2021

**Double Negative**, Brooklyn, NY  
Staff Writer, September 2019-Present

