# Madelyn Scandlen

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## EDUCATION

**Master of Science, Computer Science**                                    **December 2023**
Georgia Institute of Technology – *Atlanta, GA*
- Machine Learning specialization

**Bachelor of Science, Computer Science**                                    **May 2022**
Georgia Institute of Technology – *Atlanta, GA*
- Intelligence & People concentrations, Linguistics Minor

## WORK EXPERIENCE

**Data Scientist**                                    **January 2024 – Present**
HP Inc. – *San Diego, CA*
- Fine-tuned and repurposed open-source Large Language Models (LLMs) using AWS JumpStart scaffolding to enhance automation for internal resources.
- Automated benchmarking for LLMs on proprietary data using state-of-the-art open-source HuggingFace packages to enhance model evaluation and performance metrics.
- Leveraged LLMs to explore innovative business use cases, identifying avenues for enhanced efficiency and strategic utilization of language models in diverse applications.

**Data Science Intern**                                    **May 2023 – December 2023**
HP Inc. – *Houston, TX*
- Developed machine learning temporal models for change-point and anomaly detection of company products using scikit-learn packages.
- Analyzed big data on PySpark clusters to derive actionable insights and support decision-making processes.
- Spearheaded exploration of new data for appropriate modeling techniques to extract meaningful patterns.

**Software Development Intern**                                    **May 2020 – July 2020**
State Farm Insurance – *Phoenix, AZ*
- Implemented a Virtual Reality simulation for employee onboarding, using C# and Unity IDE, resulting in notable improvements in the onboarding process.
- Designed and constructed a mobile application in the VR simulation with seamless user interactions.

## RESEARCH EXPERIENCE

**Research Assistant**                                    **August 2020 – December 2021**
*Linguistics Department, Georgia Institute of Technology – Atlanta, GA*
Language & Politics in the New South (funded by President's Undergraduate Research Award)
- Transcribed sociolinguistic interviews using PRAAT and analyzed speech trends using R and Python.
- Created surveys deployed on Mechanical Turk to elicit ratings of Southernness and political conservatism to analyze trends in perceptions of political ideology for phonetic features.

**Research Assistant**                                    **February 2021 – August 2021**
*DILAC, Georgia Institute of Technology – Atlanta, GA*
- Performed Entity Extraction on collected works of Ralph Waldo Emerson with SpaCy and NeuralCoref libraries and used SparQL queries on WikiData entities to validate correct entities.
- Built a Knowledge Graph of Emerson's frequently mentioned entities for analysis, visualized using D3.

## SKILLS

*Programming*:  R, SQL, Java, Python, JavaScript, Spark
            NumPy, Pandas, Keras, PyTorch, Scikit-learn, NLTK, LangChain, transformers packages
*Tools*: Git, Tableau, AWS platforms