Hillel Steinmetz

Education

University of Washington ∣ MS in Computational Linguistics ∣ Seattle, WA   Sep 2021 – Jun 2023
Awards: Ryan Neale Cross Memorial Fellowship

University of Chicago ∣ BA in Linguistics ∣ Chicago, IL   Sep 2015 – Jun 2019
Awards: Leonard Bloomfield Prize in Linguistics, Phi Beta Kappa

Employment History

National Aeronautics and Space Administration (NASA)   Jun 2023 – Aug 2023
AI & Machine Learning Intern ∣ Mountain View, CA (remote)
- Proposed and data annotation schema and model to improve legacy air traffic management systems

Smart Information Flow Technologies (SIFT)   Jun 2022 – Mar 2023
NLP Research Intern ∣ Minneapolis, MN (remote)
- Trained and optimized a span-level sentiment analysis model to detect disinformation and influence campaigns on social media using Transformers and PyTorch packages
- Researched model training methods to reduce social and political bias
- Developed a CI/CD pipeline to ensure compatibility with dataset schema and model interface software

Saggezza   Nov 2020 – Nov 2021
Technical Writer ∣ New York, NY (remote)
- Published 50+ software documentation pages for 5+ products for an S&P100 financial services firm
- Collaborated with product owners and front-end engineers to design portals for usability and readability

Projects

Transfer Learning Using L2 Speech to Improve Dysarthric Speech Recognition ∣ REPO ↗
- Researched finetuning, multitask learning, and domain adversarial adaptation to improve automatic speech recognition of dysarthric speech for a master's thesis (Advisor: Prof. Gina-Anne Levow)
- Discovered that L2 Speech data improves automatic speech recognition for speakers with dysarthria

NLP Model to Detect Humor ∣ REPO ↗
- Collaborated with 3 students to create an NLP system that identifies humor in tweets with >95% accuracy
- Contributed to the system by building an ensemble model using an LLM and linguistic feature classifier

World Languages Quiz ∣ REPO ↗
- Created a web-based quiz game with **JavaScript** and **HTML** for the interface and **Python**'s beautifulsoup package to acquire data on the world's languages from Wikipedia

Skills

Programming Languages: Python (highly skilled), R (proficient), Bash (proficient), HTML/CSS (proficient), JavaScript (novice), C (novice), SQL (novice)
- ↳ **Python packages**: PyTorch (highly skilled), NLTK (proficient), NumPy (proficient), spaCy (proficient), Pandas (proficient), Scikit-learn (proficient), Matplotlib (novice), Pytest (novice)
  Tools: Git, Jira, CI/CD, Linux, Docker (novice)

Human Languages: Hebrew (advanced), French (intermediate)