

Mimansa Jaiswal

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INTERESTS

I am primarily interested in *LLM post-training and evaluation*, focusing on understanding why models fail or behave unexpectedly __ (Failure Analysis) __, improving them through techniques such as RLHF/RLVR/RLAIF, DPO/GRPO, and reward modeling __ (Post-Training) __, developing automated and synthetic evaluation systems to measure fine-grained capabilities and robustness __ (Evaluation & Data Augmentation) __, integrating human knowledge and preferences into model development __ (Human-in-the-Loop ML) __, and enhancing interpretability and deployment readiness __ (Model Explainability & Deployment) __.

EXPERIENCE

Meta (MSL Org)

Research Scientist

Feb 2025 – Present

- Part of Meta AI's Capabilities team, developed and fine-tuned large language models (LLMs) using advanced post-training techniques including RLHF/RLVR/RLAIF (with and without checklists), and used DPO/GRPO with reward models for improving production models.
- Built end-to-end synthetic data generation pipelines and automated evaluation systems, including rubric-based judges, preference data collection workflows, and quality assessment frameworks for model improvement and hill-climbing optimization.

Norm AI

Research Engineer

Oct 2023 – Oct 2024

- Developed domain-specific retrieval-augmented generation (RAG) systems for legal applications, implementing synthetic data augmentation techniques to expand training datasets, create evaluation datasets and improve model coverage.
- Built agentic LLM simulation frameworks to model human group perception and consensus-building for subjective law interpretation and policy evaluation.

Allen NLP, Allen Institute for AI

Research Intern

Sep 2021 – Dec 2021

- Developed interpretable and compositional evaluation frameworks for GPT-3 and other language models, creating benchmarks for multi-aspect quality assessment.
- Used the designed evaluation methodologies to measure fine-grained model capabilities and failure modes in natural language understanding tasks.

NLP Team, Facebook AI Research (FAIR)

Research Intern

May 2021 – Aug 2021

- Identified and analyzed systematic failure patterns in Natural Language Inference (NLI) through adversarial testing and error analysis.
- Developed correction strategies and data augmentation techniques to improve model robustness on challenging NLI examples performing experimentation on CTRL model.

Conversation AI, Facebook Research

Research Intern

May 2020 – Aug 2020

- Developed interpretable user satisfaction metrics for conversational AI systems by integrating human knowledge and behavioral signals, and trained weakly supervised hierarchical label models.
- Created generalizable evaluation frameworks combining quantitative metrics with qualitative human feedback for dialogue quality assessment.

EDUCATION

University of Michigan

Ann Arbor, MI

Ph.D. in Computer Science and Engineering

Sep 2017 – Aug 2023

- **Honors:** Awarded Barbour Fellowship Amongst Over 1k+ Applicants
- Computational Human Analysis and Integration (CHAI) Lab
- *Advisor*: Prof. Emily Provost

- **Honors:** GPA: 3.87/4.00
- **Coursework:** Natural Language Processing, Advanced Artificial Intelligence, Bayesian Inference

- **Honors:** GPA: 3.7/4.00
- **Coursework:** Information Retrieval, Machine Learning, Algorithm Design and Analysis

PUBLICATIONS

CAPSTONE: Capability Assessment Protocol for Systematic Testing Of Natural language models' Expertise.

Mimansa Jaiswal — *Research Notes*.

Designing Interfaces for Delivering and Obtaining Generation Explanation Annotations. Mimansa Jaiswal — *Demo and Repository*.

The Future of Open Human Feedback. Shachar Don-Yehiya, Ben Burtenshaw, Ramon Fernandez Astudillo, Cailean Osborne, Mimansa Jaiswal, Tzu-Sheng Kuo, Wenting Zhao, Idan Shenfeld, Andi Peng, Mikhail Yurochkin, Atoosa Kasirzadeh, Yangsibo Huang, Tatsunori Hashimoto, Yacine Jernite, Daniel Vila-Suero, Omri Abend, Jennifer Ding, Sara Hooker, Hannah Rose Kirk, Leshem Choshen — *Submitted*.

Temperature Zero Isn't the Best Choice For Accuracy in Legal Reasoning. Mimansa Jaiswal, Scott Worland, John Nay — *Submitted*.

Lessons from the Trenches on Reproducible Evaluation of Language Models. Stella Biderman, Hailey Schoelkopf, Lintang Sutawika, ... (and 12 others) Mimansa Jaiswal ... (and 10 others) — *Submitted*.

Sally-Anne False Belief Test for LLMs. Mimansa Jaiswal — *Workshop Paper*.

Qualitatively Studying Gender Biases in LLMs. Mimansa Jaiswal — *Workshop Paper*.

Assessing Large Language Models: A Comprehensive Survey and Critical Analysis of Evaluation Metrics and Methodologies. Mimansa Jaiswal — *Survey Paper*.

From Text to Emotion: Unveiling the Emotion Annotation Capabilities of LLMs. Minxue Niu, Mimansa Jaiswal, Emily Mower Provost. *Interspeech 2024*, Sep 2024.

Capturing Mismatch between Textual and Acoustic Emotion Expressions for Mood Identification in Bipolar Disorder. Minxue Niu, Amrit Romana, Mimansa Jaiswal, Melvin McInnis, Emily Mower Provost. *Interspeech 2023*, Aug 2023.

Mind the gap: On the value of silence representations to lexical-based speech emotion recognition. Matthew Perez, Mimansa Jaiswal, Minxue Niu, Cristina Gorrostieta, Matthew Roddy, Kye Taylor, Reza Lotfian, John Kane, Emily Mower Provost. *Interspeech 2022*, Sep 2022.

Human-Centered Metric Design to Promote Generalizable and Debiased Emotion Recognition. Mimansa Jaiswal, Emily Mower Provost. *Text as Data (TADA) Conference 2021*, Oct 2021.

Noise Based Augmentation of Emotion Datasets: What's ideal and What Isn't?. Mimansa Jaiswal, Emily Mower Provost. *ACL-SRW 2020*, Jul 2020.

MuSE: Multimodal Stressed Emotion Dataset. Mimansa Jaiswal*, CP Bara, Yuanhang Luo, Rada Mihalcea, Mihai Burzo, Emily Mower Provost. *Conference on Language Resources and Evaluation (LREC) 2020*, May 2020.

Privacy Enhanced Multimodal Neural Representations for Emotion Recognition. Mimansa Jaiswal, Emily Mower Provost. *AAAI Conference on Artificial Intelligence (AAAI) 2020*, Feb 2020.

Controlling for Confounders in Multimodal Emotion Classification via Adversarial Learning. Mimansa Jaiswal, Zakaria Aldeneh, Emily Mower Provost. *International Conference on Multimodal Interaction (ICMI) 2019*, Oct 2019.

Identifying Mood Episodes Using Dialogue Features from Clinical Interviews. Zakaria Aldeneh, Mimansa Jaiswal, Michael Picheny, Melvin McInnis, Emily Mower Provost. *Interspeech 2019*, Sep 2019.

MuSE-ing on the Impact of Utterance Ordering On Crowdsourced Emotion Annotations. Mimansa Jaiswal, Zakaria Aldeneh, Cristian-Paul Bara, Yuanhang Luo, Mihai Burzo, Rada Mihalcea, Emily Mower Provost. *IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP) 2019*, May 2019.

The PRIORI Emotion Dataset: Linking Mood to Emotion Detected In-the-Wild. Soheil Khorram, Mimansa Jaiswal, John Gideon, Melvin McInnis, Emily Mower Provost. *Interspeech 2018*, Sep 2018.

HONORS AND AWARDS

Barbour Fellowship, University of Michigan Rackham Graduate School

Ann Arbor, MI | Sep 2022

- Awarded amongst over 1,000+ applicants

Graduate Student Instructor for Affective Computing Course, University of Michigan

Ann Arbor, MI | Jan 2020

Student Representative in CSE Faculty Hiring Committee, *University of Michigan* Ann Arbor, MI | Sep 2020
CSE Department
Invited Speaker at PyCon 2016, *PyCon Singapore* Singapore | Jun 2016
Invited Speaker at PyCon 2016, *PyCon India* India | Oct 2016
National Talent Search Examination Scholarship, *National Council of Educational Research and Training (NCERT)* India

- Top 0.01% in India

SKILLS

Research Areas: LLM Post-Training (RLHF/RLVR/RLAIF, DPO/GRPO), Model Evaluation & Benchmarking, Failure Analysis, Synthetic Data Generation, Human-in-the-Loop ML, Retrieval-Augmented Generation (RAG), Natural Language Processing, Multimodal Learning
Technical Skills: Python, PyTorch, Transformers, Machine Learning, Deep Learning, Statistical Analysis, Experimental Design
Professional Activities: Reviewing: ICDMW, ICMI, ACII, CHI, CSCW, *ACL, AAAI, NeurIPS (2019-present), Public Speaking, Technical Writing, Mentoring

LANGUAGES

English (Fluent) | Hindi (Native)