

# 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 decompositional 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 hierachal 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

## University of Michigan

Ann Arbor, MI

M.S. in Computer Science and Engineering

Sep 2017 – May 2019

- Honors: GPA: 3.87/4.00

- Coursework: Natural Language Processing, Advanced Artificial Intelligence, Bayesian Inference

## Institute of Engineering and Technology

Indore, India

B.E. in Computer Science Engineering

Jul 2013 – May 2017

- Honors: GPA: 3.7/4.00

- Coursework: Information Retrieval, Machine Learning, Algorithm Design and Analysis

## PUBLICATIONS

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### 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

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**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

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**Research Areas:** LLM Post-Training (RLHF/RLVR/RRAIF, 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

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English (Fluent) | Hindi (Native)