

RUCHIRA DHAR

AI and NLP Researcher

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Summary

PhD Researcher with three years of industry experience in natural language processing and generative AI. My research focuses on developing robust and interpretable evaluation frameworks for assessing state-of-the-art AI systems across various domains. With work featured at top AI conferences like ICML, EMNLP, and NeurIPS, I am eager to contribute to advancing evaluation methodologies that ensure the reliability and effectiveness of AI systems.

Experience

Flowrite Oy

Helsinki, Finland

Computational Linguist

02/2022 - 06/2023

A startup focused on enhancing writing productivity through Generative AI.

- Developed evaluation frameworks to assess LLM generations, focusing on robustness, coherence, and usability of generations.
- Transformed academic research into creating innovative prompt engineering methods to align LLM generations with user needs.
- Conducted quantitative & qualitative analysis of user data to evaluate AI system performance and alignment.

Cerence Inc

Pune, India

Speech Expert

05/2021 - 02/2022

A leading provider of voice recognition technology.

- Developed scalable frameworks for NLP-based voice assistants in 20+ languages.
- Built evaluation systems to monitor performance across to enhance alignment with linguistic and cultural variations.

Kore AI

Hyderabad, India

Associate Engineer

01/2021 - 05/2021

A company focused on AI solutions for enterprise communication.

- Developed NLP-driven chatbot solutions tailored to client needs.
- Improved user experience and optimised workflows across multiple projects and business requirements.

Education

University of Copenhagen

Copenhagen, Denmark

PhD in Computer Science

09/2023 - Present

The English and Foreign Languages University

Hyderabad, India

Masters in Linguistics

08/2018 - 06/2020

- Top 1% of class with highest grade in year (Grade O and GPA 10/10).
- Highest grade in courses on Mathematical Linguistics, Computational Semantics & Natural Language Processing with Python.

Shri Shikshayatan College, University of Calcutta

Kolkāta, India

BA in English

06/2015 - 06/2018

- Top 1 % of class with Honours and Certificate of Academic Excellence.
- Minor in History and Political Science.

RESEARCH

Unireps Workshop, Neural Information Processing Systems (NeurIPS), Vancouver, Canada, 2024

Investigating the role of modality and training objective on representational alignment between transformers and the brain

Published work in evaluation of representations in LLMs & Human Brains.

Available here: <https://tinyurl.com/4czxpyyt>

RESEARCH

[Empirical Methods in Natural Language Processing \(EMNLP\), Florida, USA, 2024](#)

Defining Knowledge: Bridging Epistemology and Large Language Models

Published work in defining and evaluating epistemological notions for LLMs.

Available here: <https://tinyurl.com/y3kddjyy>

[LLM & Cognition Workshop, International Conference on Machine Learning \(ICML\), Vienna, Austria, 2024](#)

From Words to Worlds: Compositionality For Cognitive Architectures

Presented work on evaluating compositional reasoning in LLMs.

Available here: <https://tinyurl.com/5n6p3rzh>

INVITED TALKS

[International Symposium in AI & Neuroscience, Florence, Italy, 2024](#)

The Completeness Problem- Beyond Human Metrics in Assessing Capabilities of Cognitive Systems

[Agency and Intentions in AI Workshop \(AIAI\), Göttingen, Germany, 2024](#)

Compositionality in Language Models- A Perspective in Changing Interpretations and Methods

CERTIFICATIONS

[Generative AI Fundamentals](#) — Google Cloud Skills Boost, 2023

EXTERNAL AFFILIATIONS

[Cohere For AI](#)

Community Lead

09/2024 - Present

Leading outreach efforts at leading AI non-profit outfit and organizing monthly sessions with 200+ participants to foster research connections in AI community.

[Centre of Philosophy of AI](#)

Fellow

09/2023 - Present

Researching fundamental properties of AI systems, including their social and economic impact, as part of the leading research centre in Denmark

Languages

English Native ●●●●●

Hindi Native ●●●●●

Bangla Native ●●●●●