RUCHIRA DHAR

📍 COPENHAGEN, 2400, DENMARK

DETAILS

Copenhagen, 2400
Denmark
rudh@di.ku.dk

Nationality
Indian

LINKS

Personal Website

Linkedin

X

SKILLS

Python

Deep Learning

Machine Learning

PyTorch

Git

LANGUAGES

English

Hindi

Bangla

PROFILE

Experienced AI researcher with an interdisciplinary background in linguistics, cognitive science, and artificial intelligence. Current research interests include development and evaluation of cognitive capabilities of LLMs, such as reasoning and generalization. Also dedicated to understanding the foundational capabilities of AI to ensure their responsible integration into society and the economy, with an emphasis on ethical frameworks, social equity, and long-term sustainability. Skilled at bridging technical innovation with cross-disciplinary insights to drive impactful and meaningful change.

EDUCATION

PhD Computer Science, University of Copenhagen, Copenhagen
September 2023 — Present

MA Linguistics, The English and Foreign Languages University, Hyderabad
August 2018 — June 2020

EMPLOYMENT HISTORY

Computational Linguist at Flowrite Oy, Helsinki
February 2022 — June 2023

Evaluating and improving LLM capabilities for structured natural language generation as part of the AI Team.

Speech Expert at Cerence Inc, Pune
May 2021 — February 2022

Development and deployment of frameworks for deploying AI-powered voice assistants for clients in multiple world languages.

Associate Engineer at Kore AI, Hyderabad
January 2021 — May 2021

Research and implementation of advanced NLP-powered chatbots for clients in line with organizational requirements.

PUBLICATIONS

Unireps Workshop Proceedings, Neural Information Processing Systems (NeurIPS), Vancouver
December 2024 — December 2024

Paper: *Investigating the role of modality and training objective on representational alignment between transformers and the brain (-https://openreview.net/forum?id=t4CnKu6yXn#discussion)*

Main Conference Proceedings, Empirical Methods in Natural Language Processing (EMNLP), Miami
November 2024 — November 2024

Paper: *Defining Knowledge: Bridging Epistemology and Large LanguageModels (-https://aclanthology.org/2024.emnlp-main.900/)*

★ PRESENTATIONS/INVITED TALKS

International Symposium in AI & Neuroscience, Florence
September 2024 — September 2024

Talk: *The Completeness Problem- Beyond Human Metrics in Assessing Capabilities of Cognitive Systems (https://acain2024.icas.events/symposium/)*

LLM & Cognition Workshop, International Conference on Machine Learning (ICML), Vienna
July 2024 — July 2024

Paper: *From Words to Worlds: Compositionality For Cognitive Architectures (-https://arxiv.org/abs/2407.13419)*

Agency and Intentions in AI Workshop (AIAI), Göttingen
May 2024 — May 2024

Talk: *Compositionality in Language Models- A Perspective in Changing Interpretations and Methods (https://ail-workshop.github.io/aiai-conference/program.html)*

South Asian Languages Analysis Conference (SALA-35), INALCO, Paris
October 2019 — November 2019

Paper: *The Bangla sprachraum: Dialect continuum from West Bengal to Assam via Bangladesh (https://shorturl.at/iUlWM)*

❦ EXTRA-CURRICULAR ACTIVITIES

Research Fellow at Centre of Philosophy of AI, Copenhagen
September 2023 — Present

Involved in research on fundamental properties of AI systems and building trustworthy AI to ensure proper social and economic integration of such systems.

Community Lead at Cohere for AI
September 2024 — Present

As a community lead for the not-for-profit arm of Cohere, I organize talks, presentations and outreach efforts for our Research Connections Social.

MOOC Coordinator at Universiteit Leiden
April 2017 — December 2017

Moderated and provided online forum support for the online course on Coursera titled *"Miracles of Human Language"* .

★ SCHOLARSHIPS

Pioneer Centre for AI & Carlsberg Foundation Research Funding, Copenhagen
September 2023 — Present

The grants for fundamental AI research fund my doctoral research at the University of Copenhagen.

Junior Research Fellowship (Linguistics), Delhi
September 2020 — December 2020

The scholarship included complete research and sustenance funding for research in language sciences at the Indian Institute of Technology (IIT), Delhi.