

RANJAN PRAKASH MISHRA

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SUMMARY

First-year PhD student at University of Groningen working on AI-Assisted Decision Support Systems, Responsible Human-AI Collaboration and Appropriate AI Reliance.

EDUCATION

University of Groningen PhD in Artificial Intelligence	Groningen, Netherlands 02/2026 - Present
University of Amsterdam Master of Science	Amsterdam, Netherlands 09/2023 - 08/2025
Maastricht University Bachelor of Science	Maastricht, Netherlands 09/2019 - 06/2022

EXPERIENCE

Research Intern | School of Business and Economics, Vrije University Amsterdam
Amsterdam, Netherlands | 05/2024 - 09/2024

Under the supervision of Dr. Meike Morren, I worked on the CLEF 2024 Human Value Detection task, focusing on using NLP techniques to identify human values in long texts. In particular, I:

- Preprocessed and cleaned a multilingual dataset of 3000 human-annotated texts for training and evaluation.
- Applied Large Language Models (LLMs) such as GPT-4o, Gemini, and LLaMA3 for human value detection.
- Conducted comparative analysis of fine-tuning vs. prompt engineering for NLP-based text classification.
- Evaluated single-label vs. multi-label classification approaches to improve model performance.
- Co-authored and published a paper in CLEF 2024 proceedings: *Eric Fromm at Touché: Prompts vs FineTuning for Human Value Detection*.
- Presented research findings at the CLEF 2024 Conference in Grenoble, France.

Undergraduate Researcher | Department of Advanced Computing Sciences, Maastricht University
Maastricht, Netherlands | 02/2022 - 06/2022

I worked in the field of Bioinformatics on the topic of Novel Osteoarthritis biomarkers using Conformal Prediction (CP). The dataset was obtained from the National Institute of Health. My role within the research was to:

- Perform extensive Exploratory Data Analysis (EDA) to extract meaningful insights from the relatively new dataset
- Build a Markov Chain model of disease progression to understand how Osteoarthritis progresses over different timepoints in the subjects
- Perform PCA and train popular Machine Learning algorithms for Osteoarthritis classification
- Use MAPIE (Model Agnostic Prediction Interval Estimator), a CP framework, to improve Osteoarthritis classification, and perform comparison
- Illustrate the findings of the semester long research in a Capstone paper.

CERTIFICATIONS

Technical AI Safety BlueDot Impact	January, 2026
AGI Strategy BlueDot Impact	December, 2025

TEACHING ASSISTANT

Data Analysis in R Vrije University Amsterdam Summer School	July, 2024
Introduction to Python Programming in Econometrics Tinbergen Institute	August, 2024
Deep Learning Tinbergen Institute	February, 2025 - April, 2025
Natural Language Processing Tinbergen Institute	May, 2025 - July, 2025

PUBLICATIONS

Mishra, R., & Morren, M. (2024). *Eric Fromm at Touché: Prompts vs FineTuning for Human Value Detection*. In 25th Working Notes of the Conference and Labs of the Evaluation Forum, CLEF 2024 (pp. 3433-3446). CEUR Proceedings.