NISHAN CHATTERJEE

4th July 1995 @ nishan.chatterjee@univ-lr.fr ☎ +49 15252136757 ⚲ github.com/nishan-chatterjee ⚲ La Rochelle, France

SUMMARY

PhD candidate in NLP focused on multilingual discourse analysis and generation. I research how strategies like persuasion and sentiment are used in politics, news, and social media, developing models to analyze and mimic these patterns while tackling challenges such as cross-lingual gaps, bias, and hallucinations.

EDUCATION

Ph.D. in Information and Communication Technologies
Institute Jožef Stefan, University of La Rochelle

📅 October 2023 – Present ⚲ Ljubljana, Slovenia, and La Rochelle, France

- Multilingual discourse modelling of viewpoints, persuasion, and sentiment
- Exploring discourse generation techniques for simulation, alignment, & bias mitigation

M.Sc. in Computational Linguistics
IMS, University of Stuttgart

📅 October 2019 – January 2023 ⚲ Stuttgart, Germany

- Thesis: Multimodal Feature Fusion via Graph Neural Networks for Visual Dialog ⚲
- Project: Neural Belief Tracker for Dialog Modelling ⚲
- Emotion Analysis and Semantic Role Labelling ⚲

Erasmus Semester
SCSS, Trinity College Dublin

📅 February 2021 – June 2021 ⚲ Dublin, Ireland

- Project: Bus management system on Vancouver Traffic Data ⚲
- Project: Statistical Analysis of Myocardial Infarction Complications ⚲

B.Tech. in Information Technology
Institute of Engineering & Management

📅 August 2013 – July 2017 ⚲ Kolkata, India

- Thesis: Sales Prediction of an Online Furniture shop using Sentiment Analysis on low-res Facial Data

PAPERS

whatdoyoumeme at SemEval-2024 Task 4: Hierarchical-Label-Aware Persuasion Detection using Translated Texts ⚲
SemEval 2024: 18th International Workshop on Semantic Evaluation

📅 November 2023 – March 2024 ⚲ Institute Jožef Stefan, Slovenia

- Hierarchy label encoding with DAG for multilingual persuasion detection
- Machine Translation to create parallel corpora for zero-shot modelling

The "Right" Discourse on Migration: Analysing Migration-Related Tweets in Right and Far-Right Political Movements ⚲
JADT 2024: 17th International Conference on the Statistical Analysis of Textual Data

📅 October 2023 – March 2024 ⚲ Institute Jožef Stefan, Slovenia

- Automatic Topic Detection and Labelling of tweets from UK and France
- Diachronic, Persuasion, and Toxicity analysis with social scientists

Analysing Bias in Slovenian News Media: A Computational Comparison Based on Readers' Political Orientation ⚲
JADT 2024: 17th International Conference on the Statistical Analysis of Textual Data

📅 January 2024 – March 2024 ⚲ Institute Jožef Stefan, Slovenia

- Corpora creation from Slovenian news-media data and media consumption survey
- Similarity detection between social groups and moral disgust

STRENGTHS

Machine Learning

PyTorch · Tensorflow · OpenCV · HuggingFace · keras · NLTK · sklearn · Pandas · NumPy · PyTorch Geometric · Conda

Programming

Python · R · Java · C++ · MongoDB · MySQL · Bash · Selenium · LaTeX

Development Tools

VS Code · Linux Server · IntelliJ IDEA · RStudio · Git · Jupyterlab · Collab · Docker

Interests

NLP · Computer Vision · Multilinguality · Multimodality · InfoViz · Sentiment Analysis · Diachronic Analysis · Debiasing · Argumentation

EXPERIENCE

System Analyst and Full-Stack Developer
HiWi at IMS, Universität Stuttgart

📅 May 2020 – September 2020

- Creating Network Graphs using Python, and Data Handing using Java and MongoDB
- Linux server hosting with Spring Boot Rest API

Systems Engineer Trainee
Infosys Limited, India

📅 February 2021 – June 2021

- Server Management, Automation Testing, and HR Chatbot Testing with Infosys NIA team
- Reduced workplace hostility by setting up an all-day server for employees to reach out

TALKS

Poster: Novel MWE Detection
3rd UniDive Workshop at Budapest, Hungary

📅 28-30 January, 2025

Paper: The "Right" Discourse on Migration
JADT 2024 at Brussels, Belgium

📅 25-27 June, 2024

Paper: Hierarchical Persuasion Detection
SemEval 2024 at Mexico City, Mexico

📅 20–21 June, 2024

LANGUAGES

English, Bengali, and Hindi
German