

AGIR Project Proposal

2024-2025

Title (titre):

Provide a title of your project / Donnez le titre de votre projet

Automated Sexism Identification in Social Networks

Partner/Client (partenaire/client):

Provide the name of the partner/client of the project (association, company, community, research lab, department, etc.) / Donnez le nom du partenaire/client de projet (association, entreprise, communauté, laboratoire de recherche, département, etc.)

LIRIS UMR5205 CNRS

Dimensions (dimensions):

~~TECHNIQUE~~ / **SOCIETALE** / **SCIENTIFIQUE** / ~~METHODOLOGIQUE~~ / ~~ARTISTIQUE~~ / ~~AUTRE~~

Highlight the dimensions of your project. Several dimensions can be specified. If you select "Other" (AUTRE), please specify / Soulignez les dimensions de votre projet. Plusieurs dimensions peuvent être spécifiées. Si vous sélectionnez "Autre", veuillez préciser

Summary including Objectives and Deliverables (résumé y compris les objectifs et les livrables):

Provide a short summary of your project clarifying the main objectives and deliverables / Ecrivez un court résumé du projet, en précisant les objectifs et les livrables attendus

Social media platforms serve a dual role in the context of sexism and gender-based discrimination. On one hand, they have become powerful tools for social activism, enabling worldwide movements like #MeToo, #8M, and #Time'sUp to gain momentum and allowing women to share their experiences of abuse and discrimination. On the other hand, these same platforms can perpetuate and spread sexist attitudes and hate speech.

Given this complex dynamic, automated detection tools could serve two valuable purposes: first, identifying and flagging sexist content and behaviour in real-time, and second, analysing patterns of sexist discourse on social media. This analysis could reveal the prevalence of sexist content, identify the most common forms of sexism, and examine how sexist ideas are communicated across these platforms.

EXIST lab contributes to developing applications to detect sexism. This challenge provides an annotated corpus that can be used to train and test models.

In this project, you are invited to propose a model of automatic sexism detection in text (Tweets) using Large Language Models (LLMs).

References (références):

(If known) Provide references including articles, websites, software, etc. / Donnez la liste bibliographique y compris les articles, sites web, logiciels, etc.

1. Plaza, Laura, Jorge Carrillo-de-Albornoz, Víctor Ruiz, Alba Maeso, Berta Chulvi, Paolo Rosso, Enrique Amigó, Julio Gonzalo, Roser Morante, and Damiano Spina. "Overview of EXIST 2024 — Learning with Disagreement for Sexism Identification and Characterization in Tweets and Memes." In *Experimental IR Meets Multilinguality, Multimodality, and Interaction*, edited by Lorraine Goeuriot, Philippe Mulhem, Georges Quénot, Didier Schwab, Giorgio Maria Di Nunzio, Laure Soulier, Petra Galuščáková, Alba García Seco De Herrera, Guglielmo Faggioli, and Nicola Ferro, 14959:93–117. Cham: Springer Nature Switzerland, 2024.
https://doi.org/10.1007/978-3-031-71908-0_5 .
2. Rodríguez-Sánchez, Francisco, Jorge Carrillo-de-Albornoz, and Laura Plaza. "Detecting Sexism in Social Media: An Empirical Analysis of Linguistic Patterns and Strategies." *Applied Intelligence* 54, no. 21 (2024): 10995–19. <https://doi.org/10.1007/s10489-024-05795-2> .
3. Rodríguez-Sánchez, Francisco, Jorge Carrillo-de-Albornoz, and Laura Plaza. "Leveraging Unsupervised Task Adaptation and Semi-Supervised Learning With Semantic-Enriched Representations for Online Sexism Detection." *Expert Systems* 42, no. 2 (2025): e13763.
<https://doi.org/10.1111/exsy.13763> .

Project Team (groupe-projet):

(If known) List people involved in the project / Donnez les noms de personnes impliquées dans le projet.

Provide their affiliation / Donnez leur affiliation.

Give the name of the team coordinator (contact person) and specify if the team is open for new members and if yes, how many / Donnez le nom de personne qui porte le projet et précisez si l'équipe est ouverte à accueillir de nouveau membres et si oui, combien.

Up to 6 persons

Contact :

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