



PTSD AI-BASED EVALUATION TOOL IN MINORITY LANGUAGES

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INTRODUCTION

Post-Traumatic Stress Disorder (PTSD) presents unique diagnostic challenges **among minority language speakers**.

Traditional assessment tools often fail to account for **cultural and linguistic nuances**, leading to potential misdiagnosis and inadequate care.

OBJECTIVES

1. To develop an AI-based system for PTSD **evaluation directly in minority languages**.
2. To enhance the accuracy of PTSD diagnosis by **eliminating the need for translation** or linguistic mediation.
3. To extract psychopathological markers **from ordinary speech** for more precise assessment.

METHOD

1. AI Development:

- Utilize **Natural Language Processing (NLP)** techniques to analyze **speech patterns in minority languages**.
- Train AI models on **culturally and linguistically diverse data** sets to recognize PTSD markers.

2. Data Collection:

- Gather **speech samples from native speakers** of **various minority languages**.
- Annotate data for PTSD markers **under expert supervision**.

3. Validation:

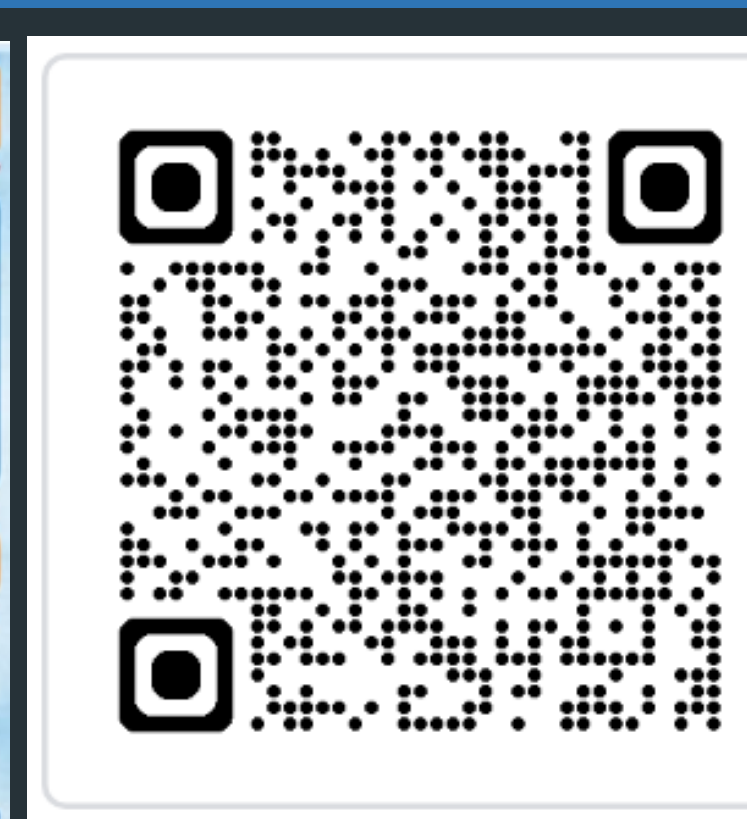
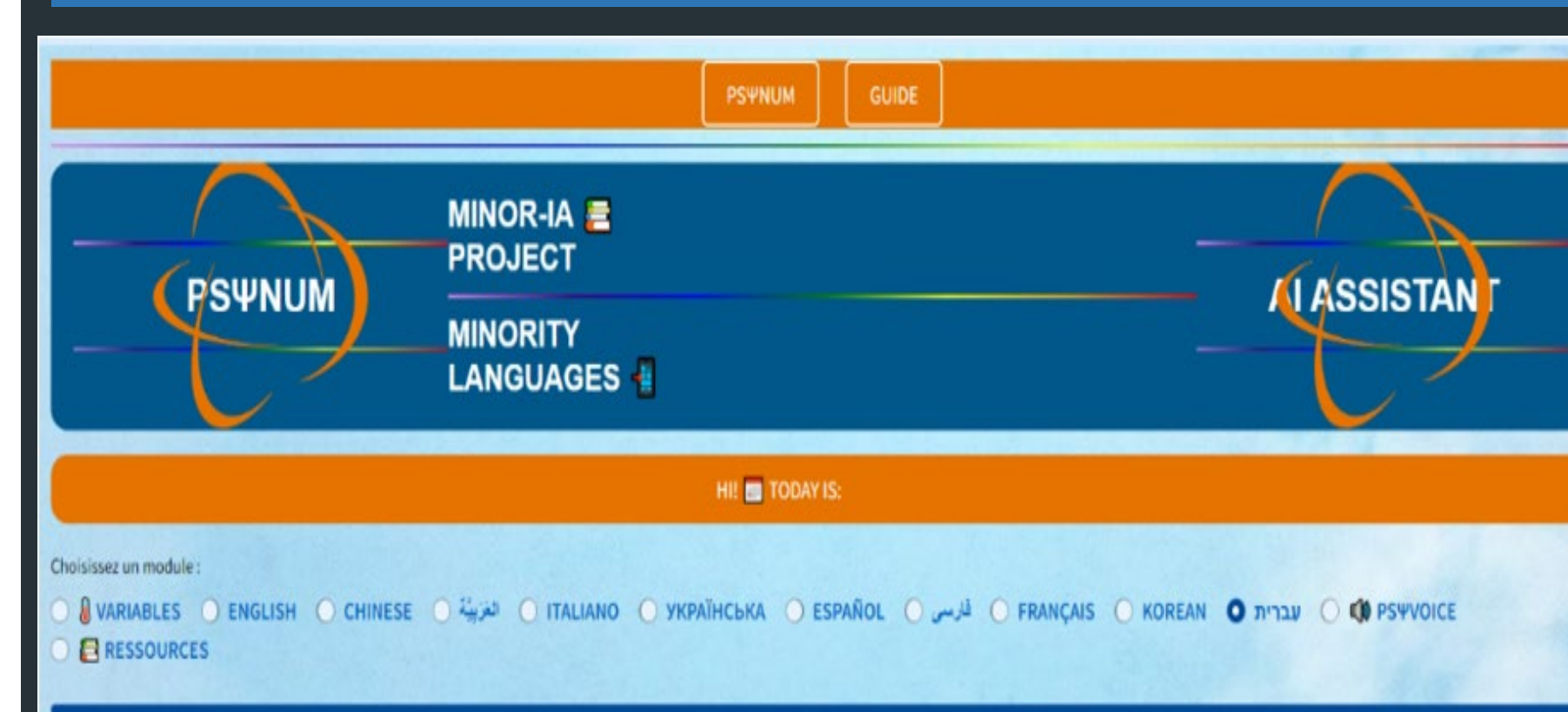
- Compare **AI assessments** with traditional diagnostic tools.
- Conduct **trials in different cultural contexts** to ensure **reliability and validity**.

Why a Specific Tool for Minority Languages?

28% Higher Precision and Accuracy in PTSD Diagnosis and Assessment!

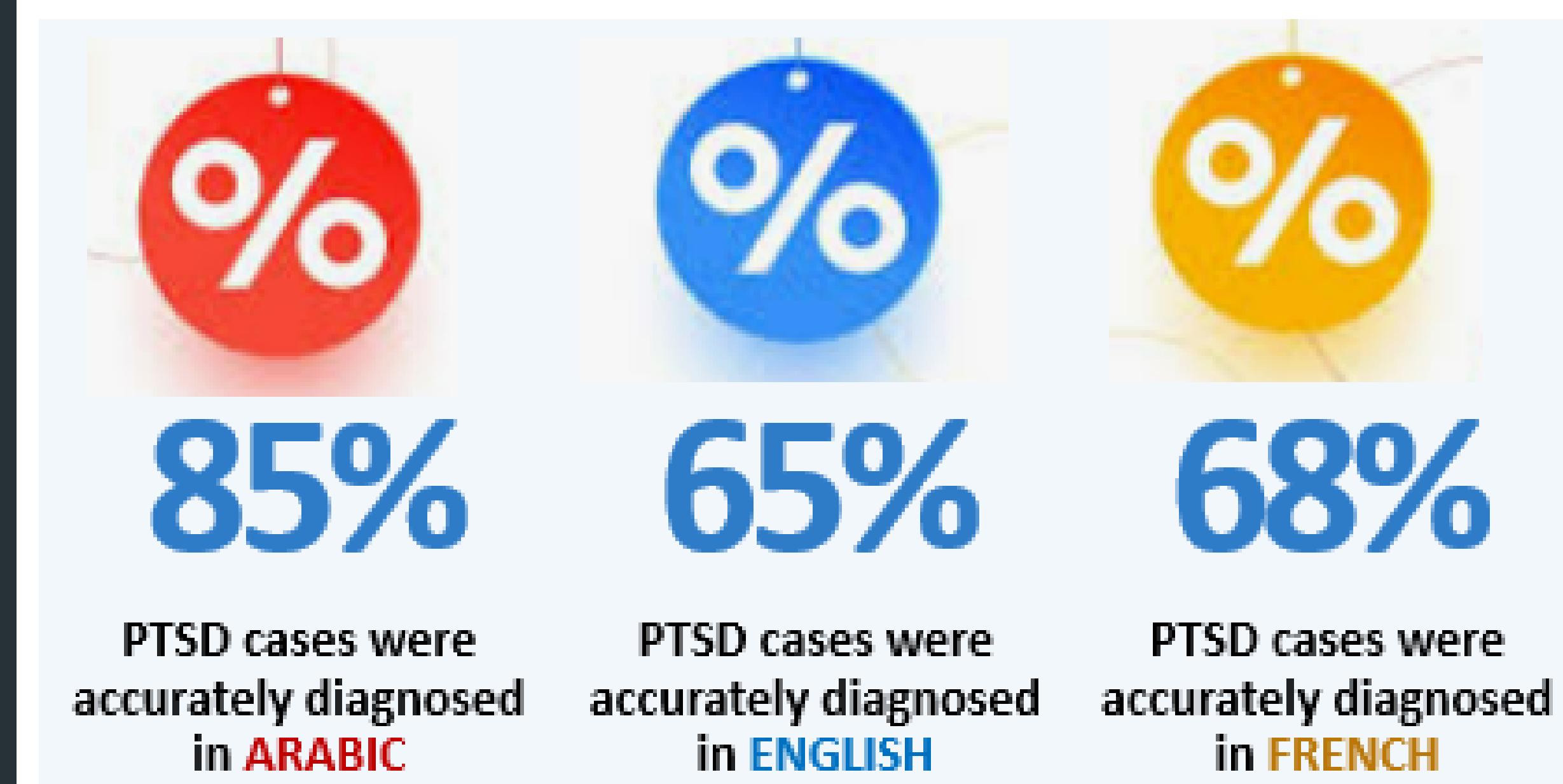
Always use the **Native Language** in evaluation, commit to **Diversity**, focus on **Linguistic Inclusion**, and **Cultural Sensitivity**.

The AI Model used in MINOR-IA is trained on diverse datasets that account for cultural nuances, providing a more accurate and culturally sensitive assessment.

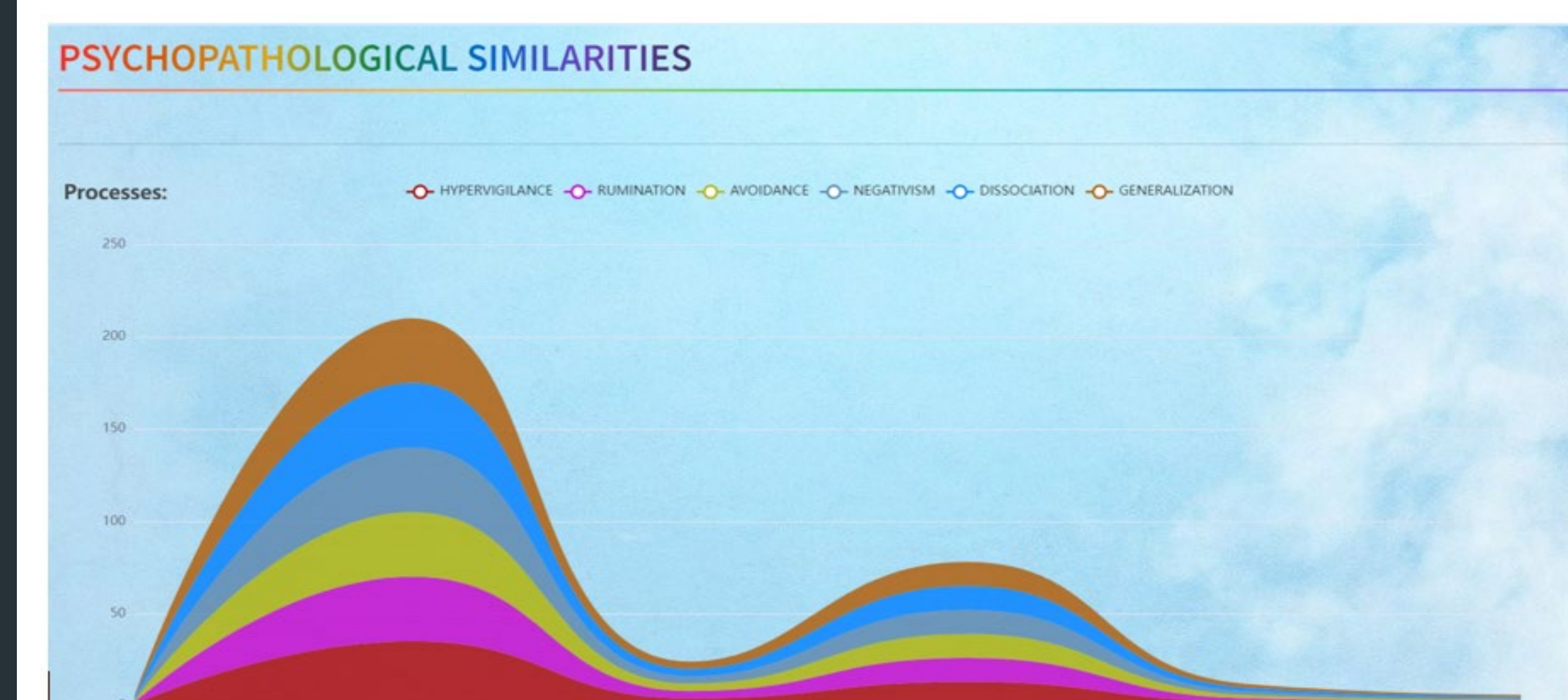


RESULTS

AI-based evaluations in identified PTSD markers with **28% higher precision and accuracy** compared to traditional assessments.



Additionally, the detected **psychopathological processes** were not always the same and did not have the same scores.



DISCUSSION

This study helps in understanding how **PTSD symptoms manifest differently in various languages**.

- Commitment to **diversity and equity**.
- Removing **barriers of marginalized groups**.
- Early Intervention and **personalized intervention strategies**.