



African Perspectives on NLP Replication in São Tomé and Príncipe: Challenges and Opportunities

Fernando NZuátor¹

¹ São Tomé and Príncipe Business School

Published: 21 June 2000 | **Received:** 06 February 2000 | **Accepted:** 02 June 2000

Correspondence: fnzutor@yahoo.com

DOI: [10.5281/zenodo.18719875](https://doi.org/10.5281/zenodo.18719875)

Author notes

Fernando NZuátor is affiliated with São Tomé and Príncipe Business School and focuses on Computer Science research in Africa.

Abstract

African languages present unique challenges for Natural Language Processing (NLP), particularly in resource-limited settings such as São Tomé and Príncipe. The replication study employs a mixed-method approach combining quantitative survey data with qualitative interviews to assess the effectiveness and challenges of implementing NLP solutions in São Tomé and Príncipe. A significant proportion (35%) of respondents indicated that language barriers are the primary challenge for effective communication using NLP technologies, while 40% highlighted inadequate local expertise as a critical issue. The study underscores the need for localized development and training programmes to enhance the usability and impact of NLP solutions in African contexts. Policy recommendations include fostering partnerships between international organizations and local stakeholders to build capacity and ensure culturally relevant applications of NLP technologies. African languages, Natural Language Processing (NLP), São Tomé and Príncipe, Linguistic diversity, Diplomatic communication Model estimation used $\hat{\theta} = \operatorname{argmin}\{\theta\} \operatorname{sumiell}(y_i, f\theta(\xi)) + \lambda l\operatorname{Vert}\theta r\operatorname{Vert} 2^2$, with performance evaluated using out-of-sample error.

Keywords: *African, Geographic, Contextualization, Corpus, Annotation, Evaluation, Adaptation*

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ **REQUEST FULL PAPER**

Email: info@parj.africa

Request your copy of the full paper today!

SUBMIT YOUR RESEARCH

Are you a researcher in Africa? We welcome your submissions!

Join our community of African scholars and share your groundbreaking work.

Submit at: app.parj.africa



Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge