

Tomas Maguire

Applied AI & NLP Lead · Computational Social Scientist

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PROFILE

Sociologist turned applied-AI practitioner with 7 years building NLP and LLM systems, from research to production. I lead agentic-AI and retrieval work on Gemini and Azure at Accenture, teach NLP at UNSAM, and research stereotypical bias in Spanish-language LLMs.

CORE SKILLS

LLMs & agents	Google Gemini, LangChain, agent harnesses, RAG, LLM evaluation & benchmarking, bias measurement
NLP & ML	Topic modeling, Sentence-BERT, fastText, clustering, sentiment analysis, PII detection
Engineering & cloud	Python, R, SQL, Redis & ChromaDB vector stores, Flask REST APIs, infrastructure as code, DevOps; Azure, Google Cloud, AWS

EXPERIENCE

Analytics & Modeling Associate Manager · Accenture 2021 – Present

- Agentic AI:** evaluating agent harnesses to consolidate existing LLM tools into one unified enterprise agent, and designing its integration with existing enterprise infrastructure.
- Customer-feedback platform (Gemini 3.6):** led design and deployment of an end-to-end system analysing customer feedback with behavioral-science sentiment models, topic identification and clustering; built the full stack, including a responsive frontend.
- Content retrieval (Azure, Redis):** deployed and maintain a production vector-store retrieval service; remediated critical security vulnerabilities.
- Document pipeline (Sentence-BERT):** semantic search with automated PII detection for GDPR compliance.

Assistant Professor, Natural Language Processing · UNSAM 2021 – Present

- Teach NLP in the postgraduate program in Computational Social Sciences and Digital Humanities.

Machine Learning Engineer · UNSAM research projects 2019 – 2024

- Built an LLM data-extraction app with LangChain and ChromaDB (2023–24); geospatial features and deck.gl visualisation; INDEC agricultural data engineering.
- Python package for the Facebook Marketing API; fastText model served via Flask REST API; Selenium, Twitter-streaming (AWS) and scraping pipelines (2019–20).

EDUCATION

MSc, Analysis & Generation of Statistical Information	Expected 2027	Licentiate in Sociology	2021
Universidad Nacional de Tres de Febrero		Universidad Nacional de San Martín	
Thesis: <i>Measuring stereotypical biases in LLMs: an implementation for Spanish</i> (thesis in final review)		Thesis: <i>Machine learning and topic modeling: media agenda in Argentina's 2015 elections</i> · project site	

PUBLICATIONS

- 2024 Computational Social Sciences: A State of Affairs and a Research Agenda · Papeles de Trabajo
- 2024 Una aproximación a los temas acerca de la COVID-19 (NLP on news-reader comments) · Papeles de Trabajo
- 2023 Capturing and analyzing social representations in COVID-19 news comments · SocArXiv

CERTIFICATIONS

Google Certified Partner Specialist: **Gemini Enterprise Deployment** and **Gemini Enterprise Agent Development** · Sep 2026

LANGUAGES

Spanish · native

English · C1 (advanced)