Kira Grudinina

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SUMMARY

Applied GenAI / NLP Engineer with 2+ years of experience working on multilingual NLP and LLM-based systems. Background combines linguistics, machine learning, and applied software engineering, with practical experience on RAG pipelines and agent-based evaluation workflows.

EXPERIENCE

NLP/Gen AI Engineer

opsci.ai   **September 2024 – Current, Paris, France**

- Engineered RAG pipelines with post-retrieval reranking using additional relevance scoring for noisy social-media text, combining document ingestion, sentence embeddings, vector search (FAISS), and LLM-based answer generation.
- Compared different RAG configurations (embedding models, retrieval depth, prompt templates, reranking strategies) using recall-based metrics, runtime observations, and qualitative output analysis to support configuration choices.
- Contributed to improving multilingual RAG performance by testing and validating embedding models and retrieval setups on real data, observing better separation between relevant and non-relevant matches and fewer language-related errors across EN / FR / RU content.
- Built agent-based evaluation workflows for LLM and RAG systems using DAG-style orchestration, including checks for hallucinations, persona-based red-teaming, jailbreak attempts, and safety edge cases, used internally to review model behavior before release.

Research Intern (Speech & Prosody)

CNRS   **July 2024 – September 2024, Nancy, France**

- Contributed to PitchPal@fr, a research prototype for real-time analysis and visualization of French prosody, combining speech signal processing, pitch estimation, and pedagogical constraints.
- Built and curated a spoken French corpus (24 recordings, 720 sentences), including recording setup, speaker metadata collection, anonymization, segmentation, and CEFR-based lexical control.
- Implemented and evaluated F0 extraction pipelines using CREPE (full and small models), and compared with alternative pitch estimation approaches (FCN, RMVPE) based on raw pitch accuracy, robustness to noise, and latency constraints.
- Developed audio preprocessing and alignment scripts (Praat, ASTALI, Python) with buffer-aware segmentation to preserve prosodic transitions and avoid phonetic clipping.
- Participated in the design of a web-based interface for visualizing pitch contours and intonation patterns, enabling qualitative analysis and pedagogical use for French pronunciation training.

Founder & Director — Online Education Platform

Start Smart   **March 2020 – July 2024, Miass, Russia**

- Founded and operated a small online education platform, managing end-to-end operations and client communication.
- Designed and maintained structured workflows for course delivery, serving 50+ learners over multiple years.
- Handled day-to-day coordination of learners, schedules, and deliverables alongside other responsibilities.

EDUCATION

Master of Science, Natural Language Processing

University of Lorraine · Nancy, France · 2025

Bachelor of Arts and Master of Arts, Theoretical and Computational Linguistics

South Ural State University · Chelyabinsk, Russia · 2014

SKILLS

Language: Python

Vector & Search: FAISS, Chroma

Frameworks & Tools: Hugging Face, vLLM, FastAPI, Docker

Data & Storage : PostgreSQL

Cloud & Compute: AWS, GCP, Lambda Labs