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To the Attention of the Thesis Supervisor
Télécom SudParis / Institut Polytechnique de Paris
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August 23, 2025, Libreville

Subject: Application for PhD "Enhancing Explainable Job Recommender Systems Using Knowledge Bases and Smart Graph Sampling"

Dear Sir/Madam,

Imagine recommender systems capable of clearly explaining their decisions while ensuring fairness and transparency in critical domains such as recruitment and healthcare. This vision of explainable and ethical AI deeply motivates me, and your doctoral project on enhancing explainable recommender systems represents the perfect opportunity to revolutionize these essential technologies.

Graduated as an engineer in Big Data & AI, I have developed expertise in machine learning and knowledge graph processing that aligns perfectly with your objectives. My experience in developing explainable ML algorithms and my mastery of PyTorch/TensorFlow frameworks position me ideally to extend the TIMBRE framework and develop advanced explainability mechanisms for temporal heterogeneous graphs.

What particularly excites me about your research is the fusion of explainability, fairness, and performance in recommender systems. I master graph analysis techniques and see in the smart sampling approach a revolutionary opportunity to optimize computational efficiency without compromising quality. My understanding of algorithmic bias issues strongly motivates me to develop discrimination detection and mitigation mechanisms. The international collaboration with UFRGS (Brazil) and the University of Dresden (Germany), along with access to real industrial datasets, represents an exceptional dimension that considerably reinforces my enthusiasm for this pioneering project.

This thesis embodies the perfect convergence between technical innovation and societal impact. I want to participate in creating transparent and fair recommender systems that will transform decision-making in high-stakes domains. With my analytical rigor, passion for ethical AI, and ability to work on complex explainability problems, I am convinced I can significantly enrich your work and develop revolutionary solutions for explainable and equitable recommendations.

I would be honored to discuss how my skills can accelerate your research objectives and contribute to this exceptional international collaboration during an interview.

Looking forward to your response, I remain respectfully yours.

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