



# esiea

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**Subject:** Letter of Recommendation – Doctoral Applications  
Laval, January 8, 2026

I highly and confidently recommend Amine Rostane, whom I have known for over three years in my capacity as a Professor of Artificial Intelligence and Optimization at ESIEA.

I taught Amine starting in his third year of the engineering program, notably in courses on Machine Learning, Advanced Machine Learning, Deep Learning, and Natural Language Processing. He distinguished himself through an excellent mastery of both theoretical foundations and practical methods, supported by an extremely solid background in computer science and mathematics. He does not merely apply methods; he understands their assumptions, limitations, and knows how to reason rigorously about complex problems.

Beyond the classroom, I have appreciated his qualities in more open and demanding contexts. He notably participated in a combinatorial optimization challenge that I organized, during which his team ranked first, with performance far surpassing the provided baseline. This achievement was the result of well-chosen modeling approaches, a robust optimization strategy, and thorough experimental validation.

I also supervised Amine in an intensive research project (Espoir Recherche), focusing on a detailed state-of-the-art study of optimization and intelligent control of data centers with heat recovery. In just three weeks, he produced high-quality work that was both comprehensive, structured, and precise. He worked largely independently, relying only on a few framing meetings. His responsiveness to recommendations, adherence to the scientific framework, and quality of deliverables are remarkable. The outputs reflect a real sense of synthesis and already well-established scientific maturity.

What particularly distinguishes Amine is the combination of his technical strength, scientific maturity, and commitment. He is highly autonomous, deeply invested in his academic, professional—he is currently an apprentice in a work-study program—and personal projects, and is capable of maintaining sustained effort over time. His personal initiatives, such as SpatialBench-UC, demonstrate genuine scientific curiosity and a clearly research-oriented approach.

Based on these observations, I consider Amine Rostane an exceptional candidate for doctoral studies. He already possesses many qualities expected of a PhD student: intellectual rigor, autonomy, methodological discipline, and strong synthesis skills. Based on my experience as



a professor and supervisor, I believe he fully has the potential and maturity required to successfully conduct demanding doctoral research.

I therefore recommend Amine Rostane without any reservation for doctoral applications in machine learning, optimization, or related fields. I am confident that he will be a major scientific and human asset to any research team.

I remain at your disposal for any further information.

**Manuel Clergue**

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