

Maissoune Nour El Houda Arif

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To the Romanian Government Scholarship Selection Committee

Subject: Application for the Romanian Government Scholarship — MSc in Computer Science (Artificial Intelligence)

Dear Members of the Selection Committee,

My name is Maissoune Nour El Houda Arif, and I am a final-year Computer Science student at the University of Ferhat Abbas Sétif 1 in Algeria. I am applying for the Romanian Government Scholarship to pursue a Master's degree in Computer Science with a focus on Artificial Intelligence. This application reflects a carefully considered academic decision and a sustained interest in advanced computing, formal reasoning, and intelligent systems.

During my undergraduate studies, I developed strong foundations in both the theoretical and applied dimensions of computer science. Courses such as Data Structures and Algorithms, Operating Systems, Graph Theory, Mathematical Logic, and Computer Architecture played a central role in shaping my analytical thinking. They trained me to decompose complex problems, reason logically, and design solutions that are both correct and efficient. My academic record reflects this commitment: I completed my first year with an average of **17.81/20** and my second year with **16.32/20**, and I hold a Baccalauréat with a grade of **18.86/20 (Excellent mention)**.

Alongside this theoretical training, I completed several hands-on projects that strengthened my understanding of how low-level mechanisms and formal models support higher-level systems. In C, I implemented a process scheduler with multithreading, which required careful management of concurrency, synchronization, and resource sharing. I also developed a lexical analyzer using Flex, exploring language processing and formal grammars. In Graph Theory, I implemented minimum spanning tree algorithms — Prim's and Kruskal's — applied to structured problems,

which reinforced my interest in combinatorial optimization. As my final-year capstone project, I am collaborating in a four-student team to build a Customer Relationship Management system using Svelte, TypeScript, Supabase, and PostgreSQL, which has deepened my experience in collaborative software development and real-world application design.

My interest in Artificial Intelligence grew naturally from this background. I view AI not as an isolated discipline, but as an extension of core computer science principles — algorithms, formal reasoning, and mathematical models — applied to complex, real-world problems. I completed the Huawei ICT Academy certification in Artificial Intelligence (Certificate Code: ICT20260501087004), which provided me with a solid introduction to machine learning, computer vision, and AI ethics, and confirmed my motivation to pursue this field at an advanced level.

I chose Romania because of its serious academic environment, strong scientific traditions in mathematics and computer science, and its openness to international students. The Romanian Government Scholarship represents an opportunity to study within the European academic system, in a setting where merit, consistency, and intellectual commitment are genuinely valued. Studying in Romania would also allow me to develop new cultural perspectives and professional networks within the European research community — experiences I consider essential for my long-term development.

I consider myself a disciplined and motivated student, with a strong sense of responsibility toward my education. I value independent learning, intellectual honesty, and sustained effort. I am eager to deepen my knowledge, participate actively in coursework and academic discussions, and engage in research activities wherever possible. I am also committed to learning the Romanian language before my departure, which I believe is both a sign of respect toward the host country and a necessary step for successful integration into the academic community.

In the long term, I aim to pursue a PhD in Artificial Intelligence and to contribute to research and knowledge transfer in contexts where access to advanced computing remains limited. By acquiring solid expertise in AI, I hope to participate in research or teaching activities and to apply algorithmic and AI-based solutions in ways that are

both technically rigorous and socially meaningful. This Master's programme is an essential step toward achieving these objectives.

I am confident that studying in Romania under the Romanian Government Scholarship would be a formative experience, both academically and personally. I am fully committed to making the most of this opportunity and to representing the programme with seriousness and dedication.

Thank you for your time and consideration.

Sincerely,

Maissoune Nour El Houda Arif