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## **Recommendation Letter**

To whom it may concern,

It is with great pleasure that I write this letter of recommendation in support of Mr. KHARFI Islam, who is currently preparing, during the academic year 2025–2026, an Engineering Degree in Biotechnology as well as a Master's degree in Biotechnology and Health at the National Higher School of Biotechnology of Constantine (ENSB), Algeria.

I have known Mr. Kharfi for more than two years in several academic and research capacities. I have had the opportunity to teach him in the modules “Modeling and Simulation of Biological Systems” and “Image Processing”, as well as during an advanced workshop entitled “Deep Learning for Bioimage Analysis.” Throughout these courses, he consistently demonstrated strong analytical skills, intellectual curiosity, and an excellent ability to grasp complex theoretical and practical concepts, particularly at the intersection of biotechnology and artificial intelligence.

In addition, I supervised Mr. Kharfi during the academic year 2024–2025 for a mini-project entitled “Non-Invasive Detection of Mental Health and Neurological Disorders Using AI.” I am also currently supervising his Final Year Project, registered as an innovative project, entitled “Detection of Mental Health and Neurological Disorders Using AI.” Both projects were officially integrated into the institutional incubation program of ENSB and were successfully validated by the project selection committee. These works clearly reflect his capacity to translate advanced AI methodologies into meaningful biomedical applications with real societal impact.

Mr. Kharfi is a serious, highly motivated, and disciplined student, always present and actively engaged in academic activities. He consistently asks relevant and insightful questions, demonstrates excellent oral communication skills, and expresses his ideas with clarity and confidence. His positive energy, adaptability, and problem-solving mindset allow him to perform efficiently in diverse and sometimes challenging situations. He shows a rare ability to propose realistic, practical, and effective solutions, combining scientific rigor with innovation.

Beyond his technical competencies, Mr. Kharfi possesses strong personal qualities, including responsibility, teamwork, autonomy, and a genuine passion for learning and innovation. His involvement in innovative projects within the incubator framework further highlights his entrepreneurial mindset and his readiness to contribute to research-driven and innovation-oriented environments.

Based on my academic, research, and supervisory experience with him, I strongly believe that Mr. KHARFI Islam has an excellent potential for advanced studies, research, and professional development. I recommend him without any reservation and am confident that he will be a valuable asset to any academic or professional institution.

Should you require any additional information, please do not hesitate to contact me.

Sincerely,

*Dr. Ahmed BOUZIANE*  
*Associate Professor & Researcher*  
*Director of the Incubator*  
*National Higher School of Biotechnology (ENSB)*  
*Constantine, Algeria*

