



Dear Admissions Committee,

I am writing to express my strong interest in the Master's Degree focused on the digitalisation of healthcare and social care services. With a background that bridges data science, biomedical signal analysis, and ICT development for life sciences, I am confident in my ability to contribute meaningfully to the multidisciplinary goals of this program and to thrive within its dynamic academic environment.

My academic and professional journey has been deeply rooted in the intersection of **technology and health**. I bring to the table extensive experience in **artificial intelligence, machine learning, and data analytics** using frameworks such as TensorFlow, PyTorch, Scikit-learn, and DoWhy. I have worked on complex challenges involving **causal inference, statistical analysis, and predictive modeling**, often using real-world health data in compliance with **GDPR** and international privacy standards. In parallel, my hands-on work with **EEG, EMG, and EKG systems**—supported by strong skills in signal processing (PCA, ICA, BSS, Fourier, and wavelet transforms). I am also well-versed in international standards such as **HL7, DICOM, and FHIR**, and have used the **BMF framework** for ICT application development in life sciences.

Beyond the technical, I have a strong appreciation for the **ethical, regulatory, and organizational dimensions** of digital healthcare. My work in drafting GDPR-compliant documentation and performing privacy impact assessments using CNIL's tools speaks to my commitment to responsible innovation. The courses that you will provide are especially important to me, as I believe that digital transformation must always be human-centered, secure, and inclusive.

I am particularly drawn to the program's emphasis on **service design, innovation, and entrepreneurship in healthcare**. I aspire to lead the development of scalable, ethically sound digital solutions that improve patient outcomes and system efficiency. This Master's program offers a unique ecosystem of knowledge—from systems thinking to cybersecurity—that will enable me to design such impactful services.

In conclusion, this program aligns perfectly with my vision of becoming a leader in healthcare innovation, combining deep technical knowledge with system-level thinking. I am eager to learn from and contribute to the program's multidisciplinary environment, and I am particularly enthusiastic about the possibility of conducting my Master's thesis in collaboration with forward-thinking healthcare institutions and research labs.

Thank you for considering my application. I look forward to the opportunity to join your community and to contribute to the ongoing transformation of healthcare systems through technology.

Sincerely,

Annalisa Barsotti

[annalisa.barsotti@outlook.it](mailto:annalisa.barsotti@outlook.it)

[www.linkedin.com/in/annalisa-barsotti-71b2a8166](https://www.linkedin.com/in/annalisa-barsotti-71b2a8166)