

Digital Health

The Digital Health Unit is a new multidisciplinary team focused on using computer vision and machine learning to analyze biomedical data, with applications across several disease areas, including chronic diseases, cardiovascular conditions, infectious diseases, and mental health.

Our research integrates biomedical imaging, clinical data, electronic health records (EHR), and natural language processing (NLP) to develop advanced AI tools that enhance diagnostic accuracy and clinical decision-making. We actively seek collaborations with startups and hospitals focused on solving real-world medical challenges.

Objectives

The main areas of activity of the unit included:

- Implementation of AI related methodology in biomedical and healthcare-related projects in direct collaboration with domain experts in hospitals and health systems.
- Collaborate with the groups and initiatives in the department, BSC and global level working in areas such as network biology, dNN and generative systems.
- Support and contribute to the Departments' efforts in handling biomedical data, including FAIR and security issues as well applications related with federated data access and federated learning.
- Collaborate in the Departments' efforts towards a comprehensive evaluation of AI applications in the health sector, with specific consideration on the detection and correction of biases.

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