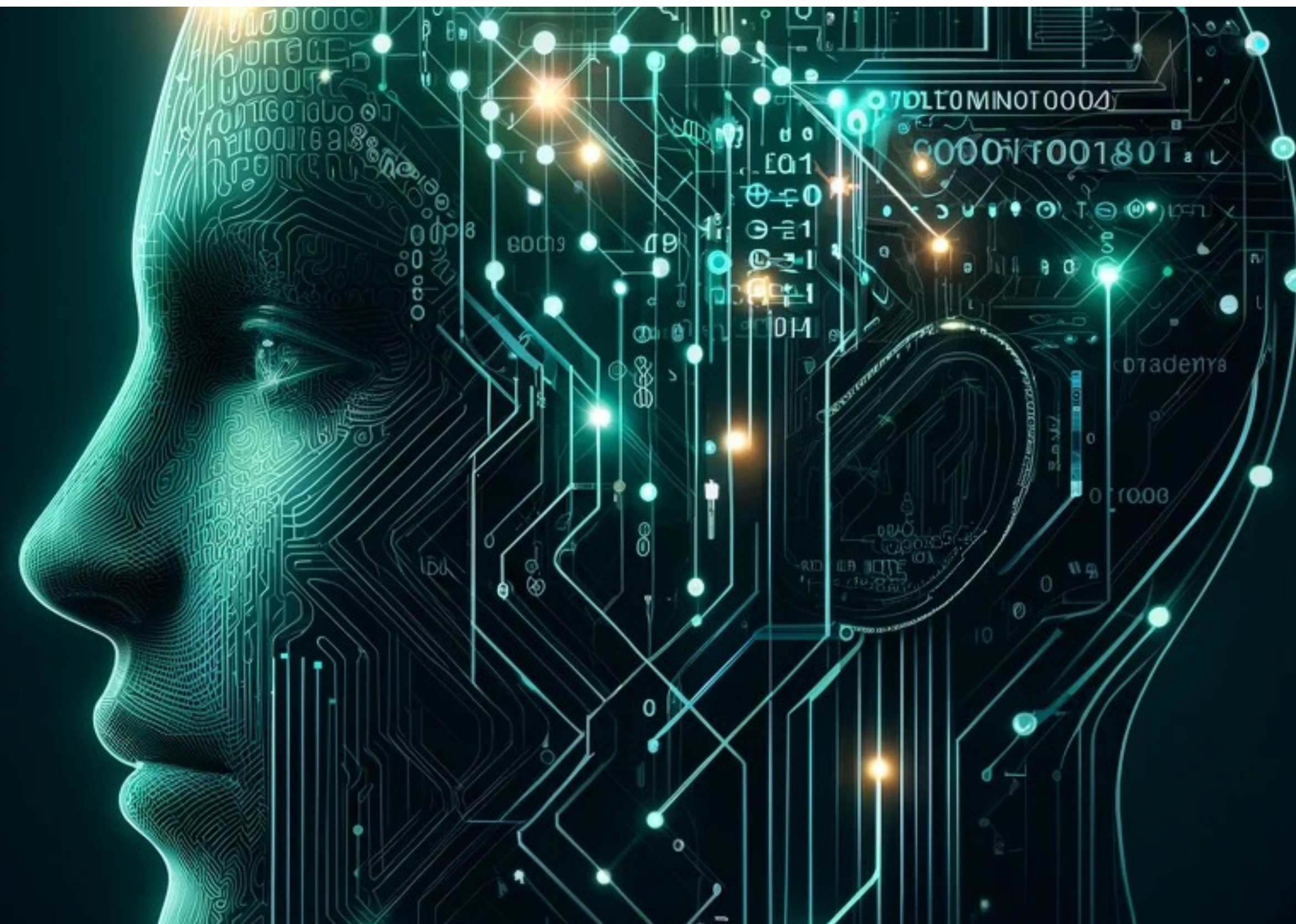


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# The FVG ecosystem in Artificial Intelligence and Data Science: best practices from research to innovation

Luca Bortolussi (Artificial Intelligence Lab, University of Trieste)



# The FVG research and education ecosystem in AI and Data Science

Artificial Intelligence  
and Cybersecurity

Informatics and  
Artificial  
Intelligence

One bachelor, three  
masters, three phds.



exact



ARTIFICIAL INTELLIGENCE  
& DATA ANALYTICS

cgn

modefinance



DATA SCIENCE &  
ARTIFICIAL INTELLIGENCE

CYBERTEC  
THE PLANNING & SCHEDULING COMPANY



FINCANTIERI



SCIENTIFIC &  
DATA-INTENSIVE COMPUTING

AINDO

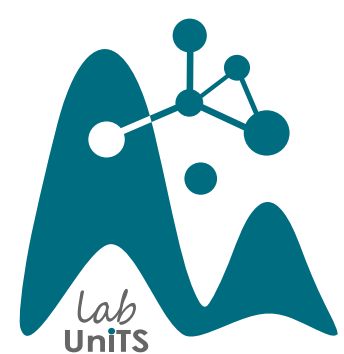


APPLIED DATA SCIENCE &  
ARTIFICIAL INTELLIGENCE

AcegasApsAmga



Televita




A growing cooperation network between academia and industry.

# Example of joint research project: healthcare monitoring

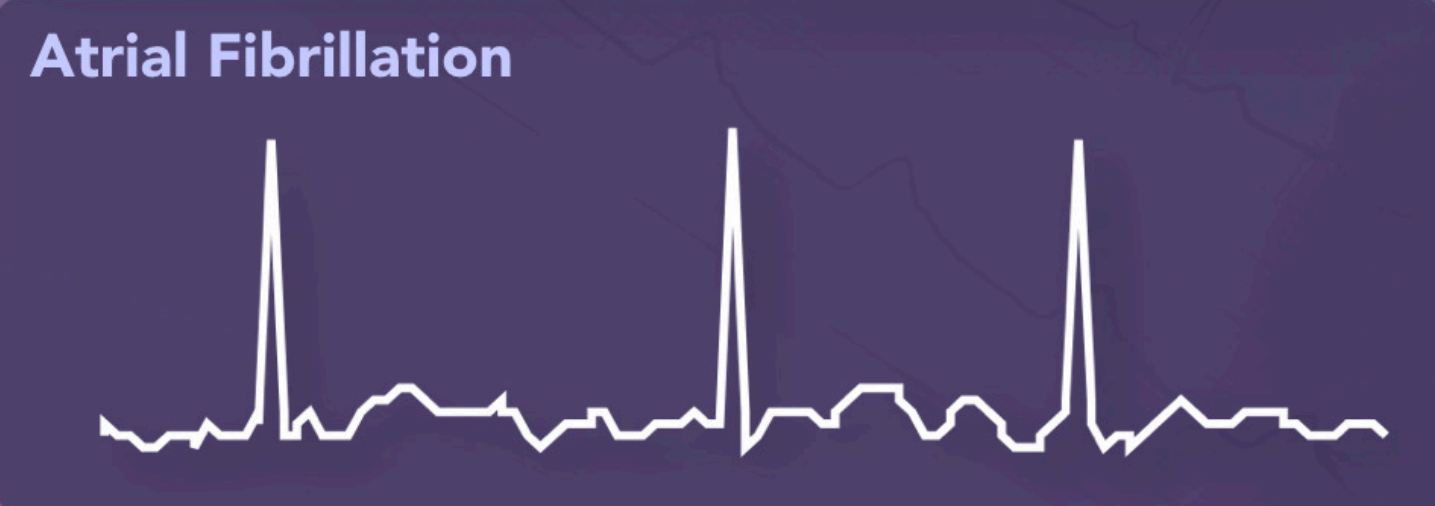
## Atrial Fibrillation ECGs

During atrial fibrillation, the heart fails to beat regularly and shows a more random rhythm on ECGs.

**Normal Rhythm**



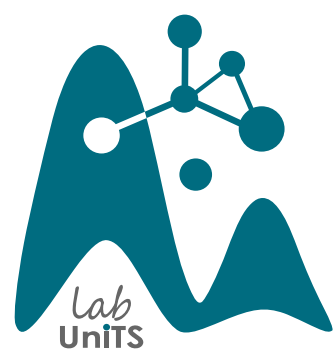
**Atrial Fibrillation**



Clearvue Health

Build a wearable device to monitor the heart and detect in real time the insurgence of medical conditions

Deep Learning + Tiny ML  
+ data collection + ...



FVG POR-FESR



# Explainable Artificial Intelligence



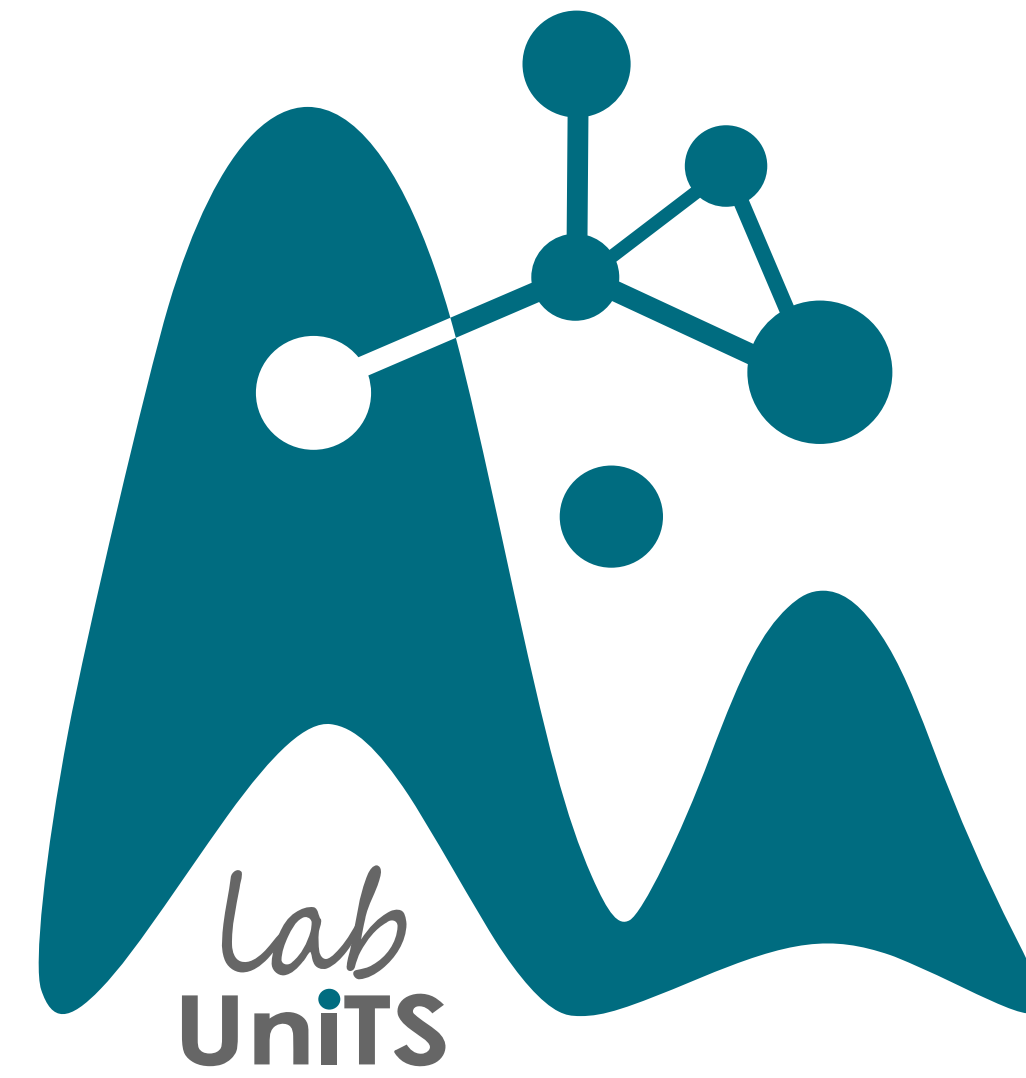
Investigate the practical application of XAI methods in industrial scenarios, trying to be compliant with the new AI act.

Foundational research on robust explanations

Protocols to apply XAI techniques



APPLIED DATA SCIENCE & ARTIFICIAL INTELLIGENCE



[ai-lab.units.it](https://ai-lab.units.it)



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