

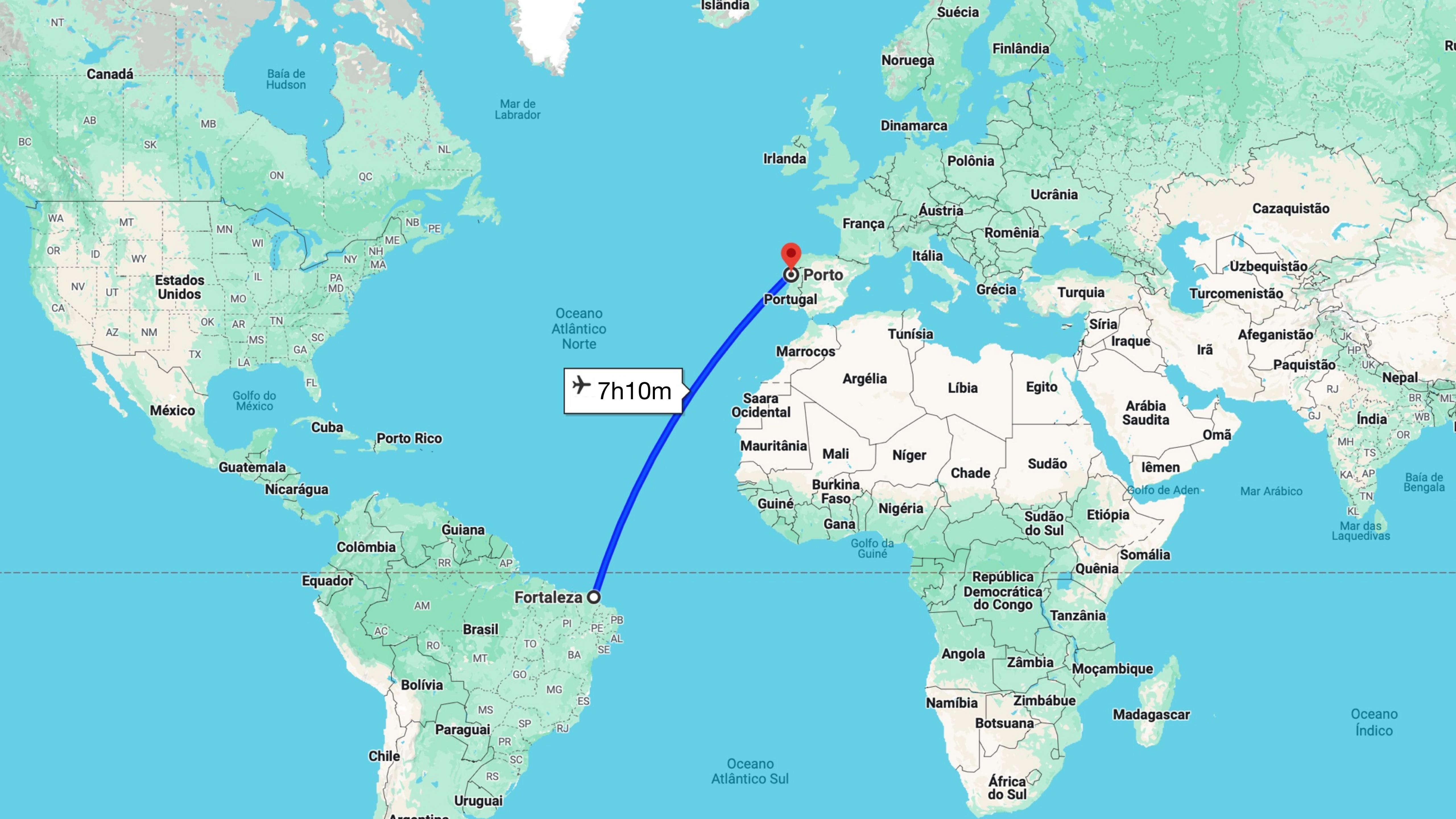
GENERATIVE AI IN THE CONTEXT OF MEDICAL DATA:

A PROJECT UNDER THE INESC TEC VISITING RESEARCHER PROGRAM

PROF. DR. **SAULO OLIVEIRA**

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A little bit about me....



PRAIA DE IRACEMA
FORTALEZA – CE



JERICOACOARA
JIJOCA DE JERICOACOARA – CE



CANOAS QUEBRADA
ARACATI – CE



CAATINGA VEGETATION – CE



... my journey until here ...

Saulo A. F. Oliveira



EDUCATION

- PhD in **Computer Science** at UNIVERSIDADE FEDERAL DO CEARÁ – UFC, Brazil (2021)
- Master in **Telecommunications Engineering** at INSTITUTO FEDERAL DO CEARÁ – IFCE (2017)
- Bachelor in **Computer Science** at IFCE (2014)
- Certified as a **Software Developer** from IFCE (2009)

EXPERIENCE

- **Visiting Researcher** at INESC TEC, PORTO, PORTUGAL (2024)
- **Associate Professor** at IFCE, Fortaleza, BRAZIL (2019 - today)
- **Research Intern** at ÉTS, MONTRÉAL, CANADÁ (2019)
- **IT Lecturer** at IFCE, MARACANAÚ, BRAZIL (2018 - 2019)
- **Machine Learning Research Intern** at UFC, FORTALEZA, BRAZIL (2016 - 2021)
- **Image Processing Research Intern** at IFCE, FORTALEZA, BRAZIL (2014 - 2016)

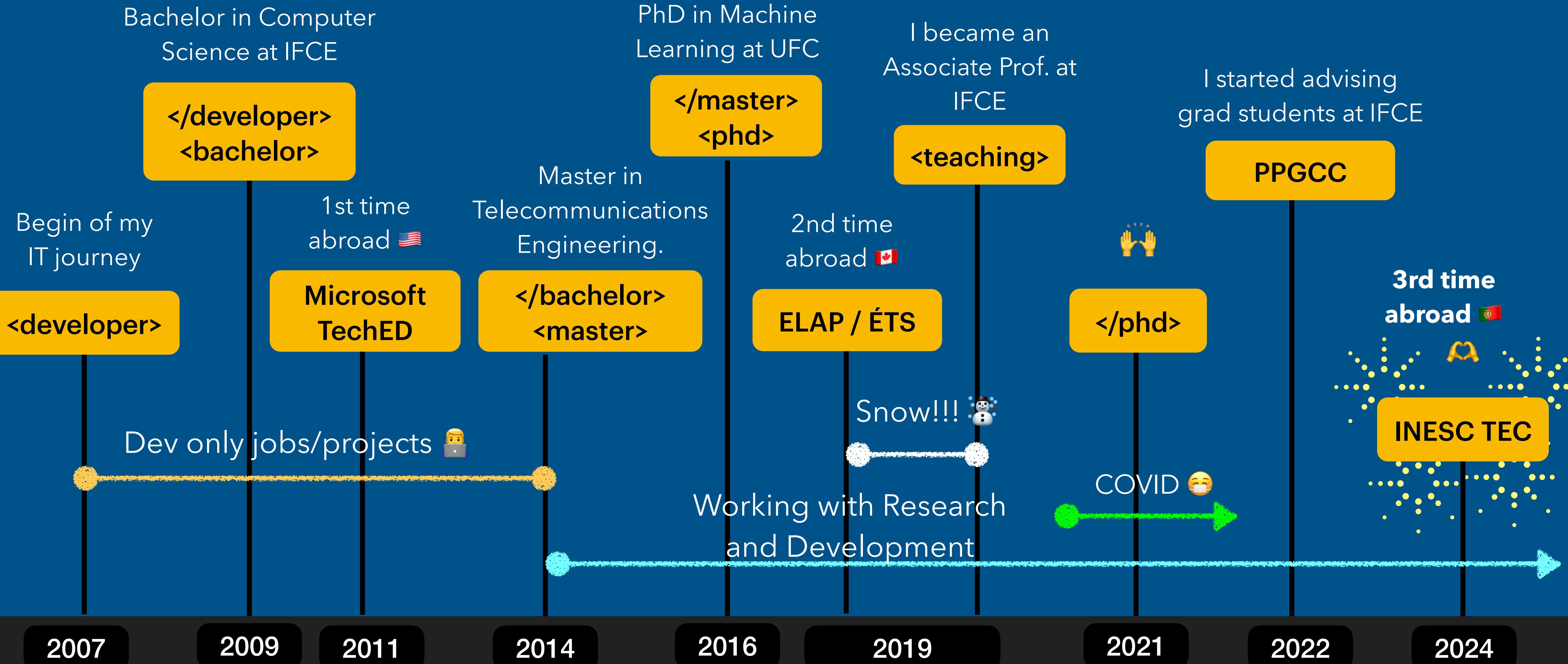
STACKS

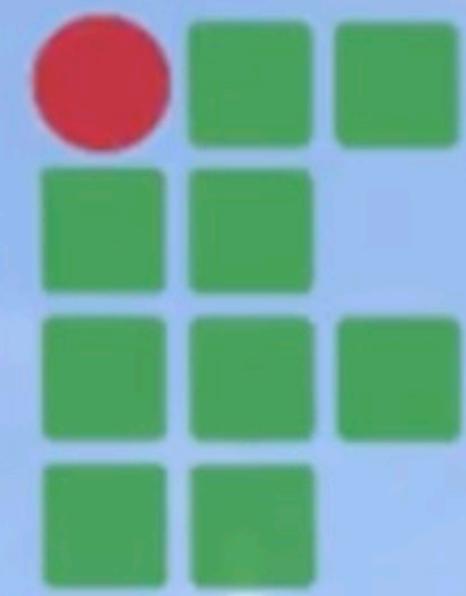
- Software Development (C/C++, PYTHON, JAVASCRIPT)
- Machine Learning
- Deep Learning
- Computer Vision
- Genetic Algorithms

AWARDS

- (2019) **Emerging Leaders in the Americas Program** Scholarship (ELAP)
- (2016) **4-year funding** for my **PhD** from CAPES
- (2014) **2-year funding** my **master's degree** from CAPES

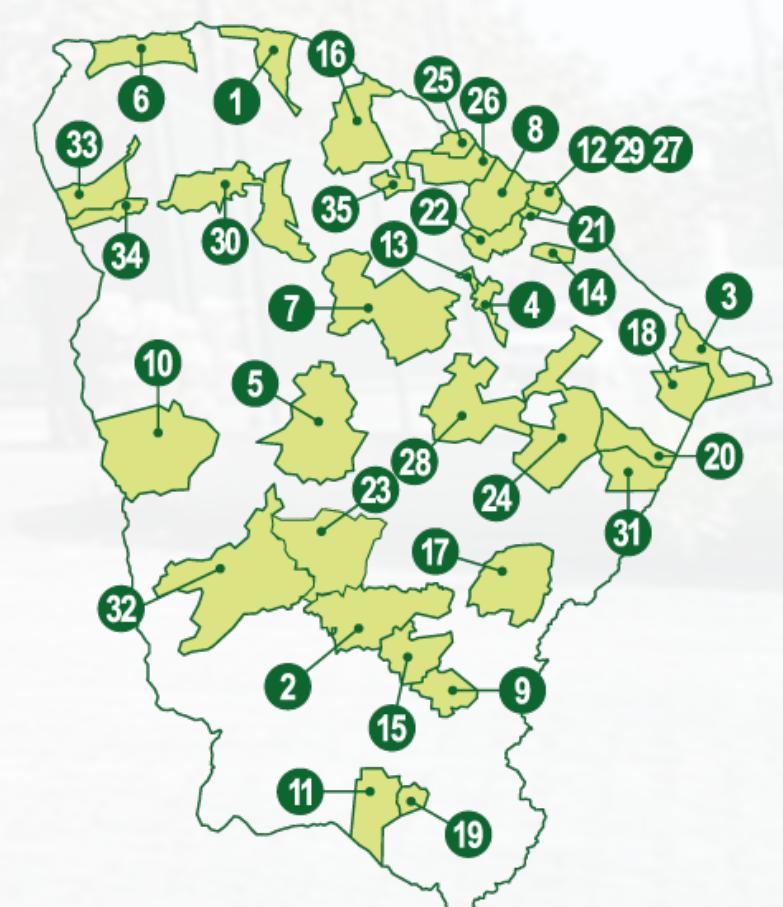
My journey





INSTITUTO FEDERAL

Ceará
Campus Maracanaú



... about me at INESC TEC

“I am excited about the potential to work on the Generation of Artificial 3D Medical Data project since it relates to the area I am pursuing in research (AE, embeddings, etc) and graduate classes. I believe it will significantly extend my academic objectives, being an important and decisive step towards my personal research goals and way of doing research with prospective students.”

–Saulo A. F. Oliveira



Saulo A. F. Oliveira

FOLLOWING

Federal Institute of Ceará (IFCE)

Verified email at ifce.edu.br - [Homepage](#)

Machine Learning Image processing Data Science



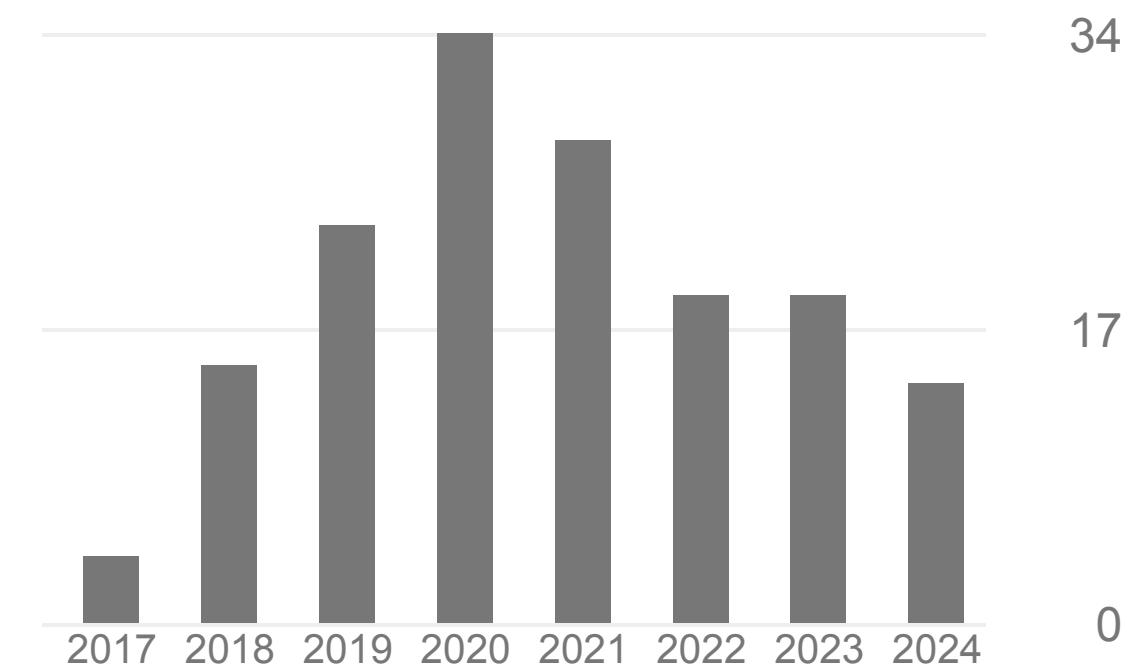
<input type="checkbox"/>	TITLE	CITED BY	YEAR
<input type="checkbox"/>	Building selective ensembles of randomization based neural networks with the successive projections algorithm DPP Mesquita, JPP Gomes, LR Rodrigues, SAF Oliveira, RKH Galvao Applied Soft Computing 70, 1135-1145	35	2018
<input type="checkbox"/>	New level set approach based on Parzen estimation for stroke segmentation in skull CT images ES Rebuças, RCP Marques, AM Braga, SAF Oliveira, ... Soft Computing 23, 9265-9286	28	2019
<input type="checkbox"/>	A novel Genetic Algorithms and SURF-Based approach for image retargeting SAF Oliveira, ARR Neto, FN Bezerra Expert systems with applications 44, 332-343	19	2016
<input type="checkbox"/>	A bi-directional evaluation-based approach for image retargeting quality assessment SAF Oliveira, SSA Alves, JPP Gomes, ARR Neto Computer Vision and Image Understanding 168, 172-181	18	2018
<input type="checkbox"/>	Sparse least-squares support vector machines via accelerated segmented test: a dual approach SAF Oliveira, JPP Gomes, ARR Neto Neurocomputing 321, 308-320	12	2018
<input type="checkbox"/>	A novel educational timetabling solution through recursive genetic algorithms SSA Alves, SAF Oliveira, ARR Neto 2015 Latin America Congress on Computational Intelligence (LA-CCI), 1-6	11	2015
<input type="checkbox"/>	Pattern Recognition and Image Analysis: 7th Iberian Conference, IbPRIA 2015, Santiago de Compostela, Spain, June 17-19, 2015, Proceedings R Paredes, JS Cardoso, XM Pardo Springer	9	2015

Cited by

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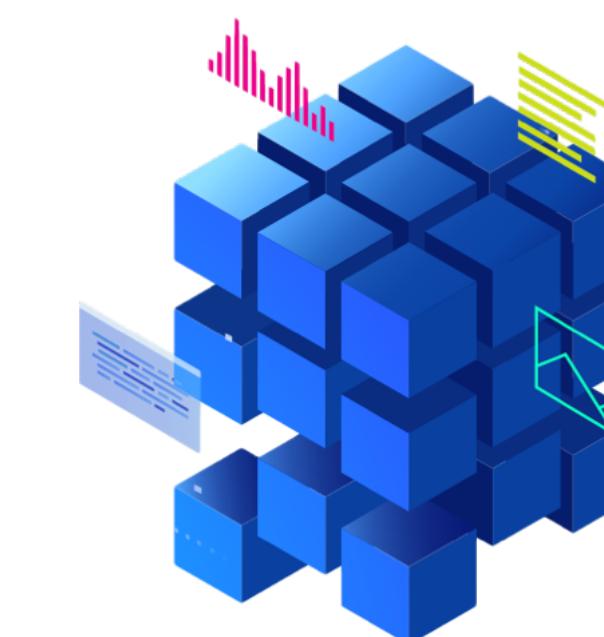
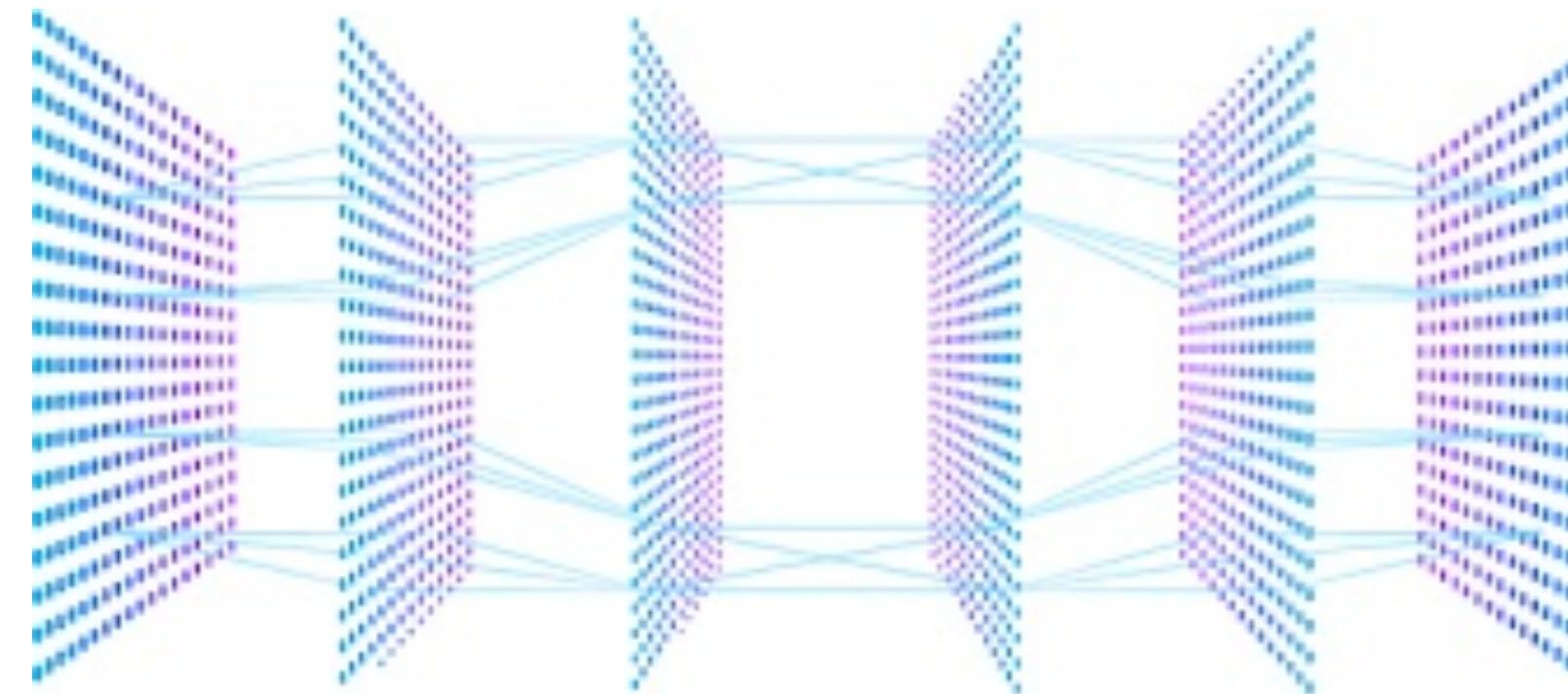
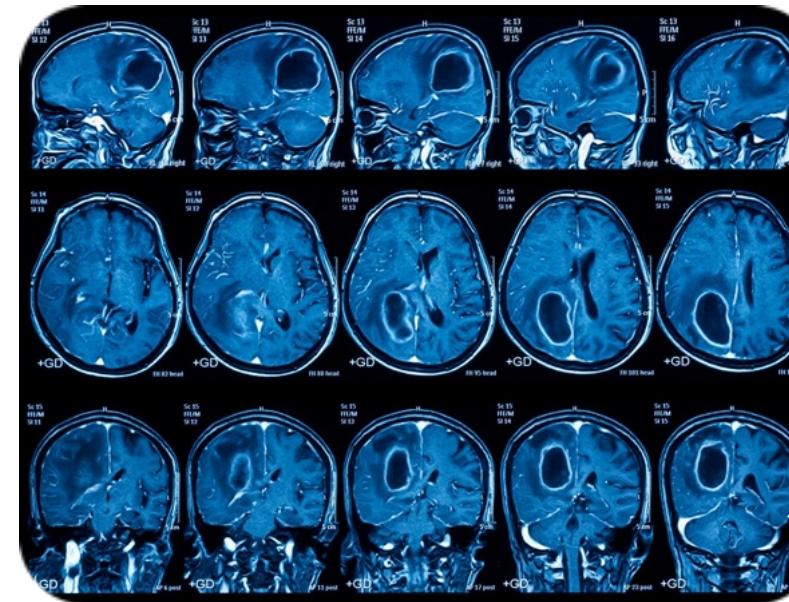
Co-authors

[EDIT](#)

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	Jaime Cardoso Full Professor at Faculty of Engi...	<a href"="">>

My desires and expectations...

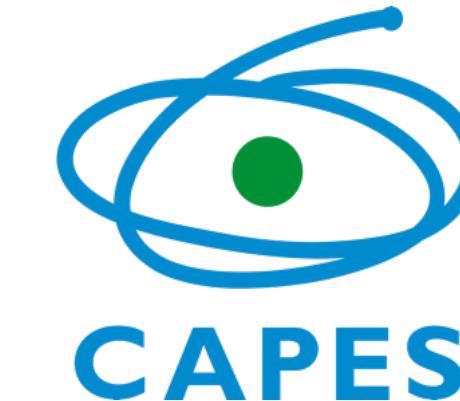
AS OF LATE AND NOWISH...



NEXT...

STACKS I WANNA ACQUIRE:

- Generative AI
- Language models
- XAI



Thank you for your attention.

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