

Guillermo Pinto

AI Researcher

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About Me

Passionate about Deep Learning and Computer Vision, convinced that AI has a huge potential to positively transform people's lives. I am currently working on thermal imaging projects. Furthermore, I have a strong interest in artificial intelligence research, and I am dedicated to advancing my work in this field through focused research initiatives.

Education

Jan 2021 – Dec 2025 | **Universidad Industrial de Santander**
BSc in Systems Engineering
GPA: 4.47/5.0

Publications

- 2025
1. **Pinto, G.**, León, J., Quintero, B., Villamizar, D. & Rueda-Chacón, H. *Multimodal Vision-Language Transformer for Thermography Breast Cancer Classification* in *2025 IEEE Colombian Conference on Applications of Computational Intelligence (ColCACI)* (Aug. 2025).
- 2024
2. **Pinto, G.**, Pimiento, M., Diaz, C. & Rueda-Chacón, H. *Detección de anomalías relacionadas con el cáncer de mama utilizando modelos de aprendizaje profundo e imágenes térmicas* tech. rep. (Preprint, Universidad Industrial de Santander, 2024).

Work Experience

- Aug 2024 – Nov 2024 | **Undergraduate Research Assistant** | Universidad Industrial de Santander
- **Advisor:** Prof. Hoover Rueda-Chacón.
 - Investigated how to integrate radiative transfer equation into deep learning models for depth estimation from hyperspectral thermal imagery.
 - Registered and calibrated LiDAR point clouds with images to create depth labels for training.

Activities

- Jun 2024 – Present | **Maintainer and Contributor** | Deep Learning Notes Repository
- May 2024 – Present | **Member, Tutor and Leader** | Hands-on Computer Vision Research Seedbed
- Aug 2023 – Jan 2025 | **Member** | Volyar Volleyball Club
- Sep 2023 – Nov 2023 | **Captain** | UIS Computer Science School Volleyball Team

Awards

May 2025	Distinguished Student Universidad Industrial de Santander Recognized for outstanding academic performance in the second semester of 2024.
Nov 2024	Distinguished Student Universidad Industrial de Santander Recognized for outstanding academic performance in the first semester of 2024.
Jan 2021	Generación E - Excelencia Ministerio de Educación Nacional de Colombia Awarded to top high school graduates with excellent SABER 11° test results for pursuing an undergraduate degree in Colombia.

Certifications

Feb 2025	Fundamentals of Deep Learning NVIDIA Studied deep learning and trained models for computer vision and NLP tasks, from scratch and with pre-trained models. Applied neural networks to image recognition and language translation.
Jan 2025	Generative AI with Diffusion Models NVIDIA Explored generative model principles, built and trained U-Nets for image generation, and enhanced image quality using denoising diffusion processes. Leveraged CLIP for text-to-image generation.
May 2024	Networking Basics Cisco Learned network functionality, IP addressing, and data routing. Built a home wireless network and completed 13 Packet Tracer activities.

Skills

Python (PyTorch, Matplotlib, SPy, W&B) | GitHub (Actions, Organizations, Copilot, Projects, Wikis) | Notion | CloudCompare

Languages

Spanish (Native Language) | English (Advanced)