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: 4.48/5.0

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

Jun 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)