

# Guillermo Pinto

AI Researcher

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## About Me

I am a tenth-semester Systems Engineering student at Universidad Industrial de Santander, 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, focusing on range, emissivity, and temperature estimation. 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: 4.44/5.0

## Publications

2024 | 1. **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).

## Awards

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 (Advanced)**
- **PyTorch (Intermediate)**
- **Languages:** Spanish (Native Language) and English (B2)