

JUAN SEBASTIAN PEÑA DONNEYS

Madrid, Spain

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Eligible to sign internship agreement via IE University

SUMMARY

Computer Science and Artificial Intelligence student with strong experience in applied data science, machine learning, and generative AI. Proven track record developing AI-driven products, data pipelines, and MVPs handling large-scale data, including NLP, computer vision, and Retrieval-Augmented Generation (RAG) systems. Experienced in translating complex AI solutions into real-world applications across social analytics, legal technology, and smart cities.

EDUCATION

IE UNIVERSITY (IEU)
Bachelor in Computer Science and Artificial Intelligence

- CUBICO Young Talented Leaders Scholarship (Academic and Leadership Excellence).
- AI: Machine Learning (9.5/10)

Madrid, Spain
Expected: July 2027

COLEGIO BENNETT
Bachillerato Bilingüe Colombiano

- Awards: Bennett Best Research Project 2023, Bennett Academic Excellence (X3).

Cali, Colombia
Graduated: June 2023

EXPERIENCE

Generative AI & NLP Developer (GenAI Mavericks Program)
Accenture

- Developed a Generative AI solution for legal document translation using Retrieval-Augmented Generation (RAG), NLP, and LLM's.
- Designed the system to preserve legal validity, jurisdictional accuracy, and semantic integrity.
- Contributed to the Justice 2030 Spain initiative, improving citizen access to trustworthy legal information through AI-driven language technologies.

Madrid, Spain
October 2025

Founder
MediaForecast

- Developed MediaForecast, an AI-driven social media analytics platform leveraging web scraping and custom APIs to analyze 500,000+ daily data points for real-time engagement insights.
- Built an AI system using computer vision and NLP to analyze 150,000+ TikTok frames, audio, and transcriptions.
- Secured 3rd place among 50+ teams at the TechVenture Bootcamp and presented findings to Ángel Revuelta, Brand Partnership Manager at TikTok Spain.

Madrid, Spain
March 2024 - Present

Co-Founder & AI Engineer
Astraeon (Tech Venture Bootcamp)

- A smart cities startup developing privacy-compliant real-time urban digital twins based on LiDAR point cloud technology.
- Designed data-driven applications leveraging 3D spatial data for traffic flow optimization, intelligent traffic signal control, parking availability detection, urban safety, and autonomous driving use cases. MVP under development with real-world validation through pilot programs of Madrid City Council (Madrid Sandbox).
- Integrated simulation, spatial analytics, and data processing pipelines to support urban planning and infrastructure optimization.

Madrid, Spain
March - June 2024

LANGUAGES

- Spanish** (Native). **English** (Bilingual, daily professional use).

TECHNICAL SKILLS

- Programming & Software:** Python, C, Java, Bash, JavaScript, Django, APIs, Git/GitHub, Docker.
- Machine Learning & AI:** supervised, unsupervised & reinforcement learning, clustering, time series, scikit-learn, PyTorch, TensorFlow, model training, evaluation, deployment.
- Deep Learning & GenAI:** CNNs, transformers, LLMs, NLP, Retrieval-Augmented Generation (RAG), prompt engineering.
- Data & Computer Vision:** EDA, statistical analysis, data visualization, OpenCV, video/image processing, LiDAR, point cloud-based systems.
- Databases & Cloud:** SQL, MongoDB, Microsoft Azure (projects), AWS (familiarity).
- Tools:** Figma, Notion, Slack, Trello.