

# 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)

Madrid, Spain

#### Bachelor in Computer Science and Artificial Intelligence

Expected: July 2027

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

### COLEGIO BENNETT

Cali, Colombia

#### Bachillerato Bilingüe Colombiano

Graduated: June 2023

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

## EXPERIENCE

### Generative AI & NLP Developer (GenAI Mavericks Program)

Madrid, Spain

#### Accenture

October 2025

- 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.

### Founder

Madrid, Spain

#### MediaForecast

March 2024 - Present

- 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.

### Co-Founder & AI Engineer

Madrid, Spain

#### Astaeon (Tech Venture Bootcamp)

March - June 2024

- 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.

## 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.