Juan Marco Castro Trinidad

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About me

Data Science and Mathematics Engineer with a strong focus on economics and finance, applying statistical modeling and data analysis to real-world decision-making. Full-stack developer experienced in building data-driven web applications and scalable platforms. Creative and curious, with interests in drawing and fitness.

Skills

Programming Data: Python (Advanced), R (Intermediate), SQL (Basic)

Data & Analytics Tools Tableau (Advanced), Power BI (Intermediate), Excel (Advanced), PostgreSQL (Basic)

Development & Deployment: Git, GitHub, Supabase, Vercel

Languages: Spanish (Native), English (C1), Japanese (A1)

Education

Tecnológico de Monterrey   *Aug 2022 – Jun 2026*

Bachelor in Data Science and Mathematics Engineering and Minor in Economics and Finance

Leaders of Tomorrow **100% scholarship**

Courses: Machine Learning, AI, Cybersecurity, Optimization, Risk Management, Portfolio Theory, Financial Math

Experience

Data Analyst – Rankings & Institutional Intelligence   *Jan 2024 – Jan 2026*

Tecnológico de Monterrey

- Conducted benchmarking analyses across **14 international university rankings** (QS, THE, Sustainability, Subject Rankings, and more), **covering 200–1000 institutions globally** and generating insights that informed institutional positioning strategies.
- Contributed to **improvements in institutional positioning across multiple rankings and subject areas** by identifying performance gaps, trends, and priority indicators.
- Designed executive dashboards and visualizations using **Power BI, Tableau, and Excel**, and prepared high-impact reports and presentations delivered directly to **senior leadership and directors**.

Projects

Full-Stack B2B Freight Marketplace (Stealth)   *2026*

- Architecting and building a scalable, serverless B2B freight marketplace using **Next.js** and **React Native (Expo)** in a **monorepo architecture**, with a **Supabase (PostgreSQL)** backend enforcing **Row Level Security (RLS)**, geospatial-based matching, and AI-assisted development workflows.
- Tech Stack: TypeScript, Next.js, React, Supabase, PostgreSQL, Tailwind CSS, Stripe API, Maps APIs

Financial Market Pattern Detection and Trend Analysis (Academic)   *2025*

- Developed a program to analyze stock market data, applying statistical methods, time-series analysis, and pattern detection to identify market trends and anomalies for **10+ financial instruments**.
- Tech Stack: Python, Streamlit, Refinitiv LSEG WorkSpace

Demographic and Economic Analysis using INEGI Data (Academic)   *2024*

- Analyzed large-scale demographic and economic datasets covering over **1 million Mexican citizens**, applying data cleaning, statistical analysis, and trend identification to generate actionable insights and reports.
- Tech Stack: Python, Excel, R Studio

Achievements

Leaders of Tomorrow 100% Scholarship   *2022*

- Institution: Instituto Tecnológico y de Estudios Superiores de Monterrey

Building LLM Applications with prompt engineering   *2025*

- Organization: NVIDIA

Humanistic Leadership and Social Transformation Diploma   *2022*

- Institution: Instituto Tecnológico y de Estudios Superiores de Monterrey