# 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.

## Education

**Tecnológico de Monterrey**                                                                 *Aug 2022 – Jun 2026*
*Bachelor in Data Science and Mathematics Engineering — Minor in Economics and Finance*
Courses: Machine Learning, AI, Cybersecurity, Optimization, Risk Management, Portfolio Theory, Financial Math
Grade: 92.25

## Experience

**Rankings Intelligence Intern** *Tecnológico de Monterrey*                                    *Jan 2024 – Jan 2026*
- Conducted large-scale benchmarking analyses across **14 international university rankings** (QS, THE, Sustainability, Subject Rankings, and more), **covering 200–1000 institutions** across **North America, South America, Europe, Asia, and Oceania.**
- Led comparative analysis across **7 academic subject areas**, identifying trends and strategic opportunities.
- 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

## Technical Skills

**Languages:** Python (Advanced), R (Intermediate), SQL (Basic)
**Data & Analytics Tools** Tableau (Advanced), Power BI (Intermediate), Excel (Advanced), PostgreSQL (Basic)
**Development & Deployment:** Git, GitHub, Supabase, Vercel

## 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