

# 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

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

## Experience

<b>Data Analyst – Rankings &amp; Institutional Intelligence</b>	<i>Jan 2024 – Jan 2026</i>
<i>Tecnológico de Monterrey</i>	
○ Conducted large-scale benchmarking analyses across <b>14 international university rankings</b> (QS, THE, Sustainability, Subject Rankings, and more), <b>covering 200–1000 institutions</b> across <b>North America, South America, Europe, Asia, and Oceania</b> .	
○ Led comparative analysis across <b>7 academic subject areas</b> , identifying trends and strategic opportunities.	
○ Designed executive dashboards and visualizations using <b>Power BI, Tableau, and Excel</b> , and prepared high-impact reports and presentations delivered directly to <b>senior leadership and directors</b> .	

## Projects

<b>Full-Stack B2B Freight Marketplace (Stealth)</b>	<i>2026</i>
○ Architecting and building a scalable, serverless B2B freight marketplace using <b>Next.js</b> and <b>React Native (Expo)</b> in a <b>monorepo architecture</b> , with a <b>Supabase (PostgreSQL)</b> backend enforcing <b>Row Level Security (RLS)</b> , geospatial-based matching, and AI-assisted development workflows.	
○ Tech Stack: TypeScript, Next.js, React, Supabase, PostgreSQL, Tailwind CSS, Stripe API, Maps APIs	
<b>Financial Market Pattern Detection and Trend Analysis (Academic)</b>	
○ Developed a program to analyze stock market data, applying statistical methods, time-series analysis, and pattern detection to identify market trends and anomalies for <b>10+ financial instruments</b> .	
○ Tech Stack: Python, Streamlit, Refinitiv LSEG WorkSpace	
<b>Demographic and Economic Analysis using INEGI Data (Academic)</b>	
○ Analyzed large-scale demographic and economic datasets covering over <b>1 million Mexican citizens</b> , applying data cleaning, statistical analysis, and trend identification to generate actionable insights and reports.	
○ Tech Stack: Python, Excel, R Studio	

## Technical Skills

<b>Languages:</b> Python (Advanced), R (Intermediate), SQL (Basic)	
<b>Data &amp; Analytics Tools</b> Tableau (Advanced), Power BI (Intermediate), Excel (Advanced), PostgreSQL (Basic)	
<b>Development &amp; Deployment:</b> Git, GitHub, Supabase, Vercel	

## Achievements

<b>Leaders of Tomorrow 100% Scholarship</b>	<i>2022</i>
○ Institution: Instituto Tecnológico y de Estudios Superiores de Monterrey	
<b>Building LLM Applications with prompt engineering</b>	
○ Organization: NVIDIA	
<b>Humanistic Leadership and Social Transformation Diploma</b>	
○ Institution: Instituto Tecnológico y de Estudios Superiores de Monterrey	