

# Miguel Ángel Castañeda Martínez

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## SUMMARY

I am a data scientist experienced in manufacturing processes, and automation of financial services back-end processes. My specialization covers end-to-end data analytics solutions, from data engineering to Business Intelligence. I am interested on professional challenges involving Machine Learning and Statistical Modeling to leverage data-driven decisions.

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## EXPERIENCE

[Instituto Nacional de Transparencia y Acceso a la Información](#), Mexico City, MX.

**Data Scientist**, Oct 2022

- Increased visibility of INAI's trending topics by implementing an alert system based on Google search trends, which helped INAI's operators detect attention topics up to 2 days prior to a ticket in the CRM system.
- Integrated a database with INAI related web searches by monitoring Google Trends through web-scraping technics.
- Coded a natural language processor of INAI's CRM data to cluster search topics to feed the scrapper above.

[Procesos Pross](#), Mexico City, MX.

**Project Manager**, Mar 2022 – Ago 2022.

- Designed and led the implementation of a Modularized Record Keeping System (MRKS) to replace legacy processes, increasing integration speed of client requirements by 40%.
- Executed the MRKS Proof of Concept with 5% of the costumers, setting a benchmark for IT to build the architecture.

**Compliance Analyst**, Apr 2021 – Mar 2022.

- Implemented a system for clock-in and clock-out from home office, gathering data for employee timeliness performance.
- Architected a requests platform with average rate of 50 requests a week, generating data for employee satisfaction metrics.

[Bilstein Shock Absorbers](#), Hamilton, OH, US.

**Manufacturing Process Plan Intern**, Aug 2019 – Feb 2020.

- Improved quality processes by analyzing data of given machines, scoring 100% in the quality assurance tests.

[UNAM Motorsports – Formula SAE](#), Mexico City, MX.

**Team Principal**, Aug 2018 – Jul 2019.

- Led an interdisciplinary team to design, build, test, and compete with a Formula type racecar in a series of international competitions, finishing as the best Latin-American team in FSAE Lincoln 2019.

**Team Member**, Aug 2015 – Jul 2018.

- Participated in the FSAE 2016, 2017, 2018 Design Series, progressively gaining responsibilities from Mechanical Designer up to Design & Manufacturing Principal, where I led the engineering development of the vehicle.
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## SKILLS

Spanish and English fluent in speaking and writing.

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| • <b>Cloud &amp; big data:</b> AWS, Spark.                | • <b>BI:</b> PowerBI, QlikSense, Shiny, Streamlit. |
| • <b>Data science:</b> Python, R Software, SQL.           | • <b>Statistical inference:</b> Stan, OpenBugs.    |
| • <b>ML &amp; DL Frameworks:</b> ScikitLearn, TensorFlow. | • <b>Frameworks:</b> Flask.                        |
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## EDUCATION

**MSc. in Data Science**, Aug 2022.

ITAM – Instituto Tecnológico Autónomo de México

[Grad. Cert. in Data Science & ML applied to Financial Markets](#), Aug 2021 – Apr 2022.

ITAM – Instituto Tecnológico Autónomo de México.

[BSc. in Mechanical Engineering](#), Aug 2014 – May 2019.

UNAM – Universidad Nacional Autónoma de México (*top 12%*).