Miguel Ángel Castañeda Martínez

(+52) 55-3422-3103 | miguel.castama@outlook.com | LinkedIn | GitHub | Portfolio

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.

EXPERIENCE

Instituto Nacional de Transparencia y Acceso a la Información, Mexico City, MX.

Volunteer Data Scientist, Oct 2022 – May 2023.

- 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-scrapping 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.

SKILLS

Spanish and English fluent in speaking and writing.

- **Cloud & big data**: AWS, Spark.
- **Data science**: Python, R Software, SQL.
- **ML & DL Frameworks**: ScikitLearn, TensorFlow.
- **BI**: PowerBI, QlikSense, Shiny, Streamlit.
- **Statistical inference**: Stan, OpenBugs.
- **Frameworks**: Flask.

EDUCATION

MSc. in Data Science, Aug 2022 – May 2023.
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%).*