

# Alfonso Murrieta Villegas

alfonsomvmx@outlook.com | CDMX, MX | +52 5571778125

## EXPERIENCE

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### Data Scientist Specialist

*Nestle, Projects and Quality Division - Supply Chain*

*December, 2021 - Present | Mexico*

- Created and deployed the first end-to-end Azure Cloud System to connect Demand and Supply Planning team with Logistics team, automating manual work and saving over 500 hours per day in Supply Chain operations
- Used statistical modeling and machine learning techniques to predict demand and optimize reorder points (ROP) schedules, resulting in a 5% reduction in stockout
- Developed and implemented algorithms using Python libraries such as Statsmodels and Knime platform to optimize inventory levels and increase Customer Order Fulfillment (COF-KPI) by up to 10%
- Managed and trained a team of data science interns to deliver successful projects on time, ensuring alignment with the organizational main plan

### Logistics Analyst Intern

*Nestle, Budget Administration Division - Supply Chain*

*August, 2021 - December, 2021 | Mexico*

- Utilized historical weather data and real-time data (Weather API) to create a basic decision-making system to reduce quality losses in customer complaints by 3% (Chocolate Business) and increase overall profitability
- Designed and proposed Power Bi dashboards to communicate insights and trends to operational team and senior managers in order to facilitate operational efficiency by 15% in logistics lead-times

## PROJECTS AND LEADERSHIP

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### Open Robotics Laboratory, UNAM

*Artificial Vision Leader*

*January, 2020 - March, 2021*

- Led the Artificial Vision team for our search and exploration robot to secure a place in the RoboCup competition, resulting in 1 of 10 places for France 2020
- Improved Artificial Vision models for exploration and search robots, achieving a 10-20% increase in performance metrics such as recall and precision
- Developed machine learning models specialized in audio and image recognition on microcontrollers (ESP32 and ESP86), enabling low-power solutions for robotics applications

### Santander (Universia - BEDU)

*Certificate of main skills and competencies for the professional world (Universia)*

*April, 2021*

- Acquired essential teamwork and leadership skills through the completion of a course that centered on developing effective communication strategies and conflict resolution techniques

*Disruptive Innovation. Data Science Program (BEDU)*

*October, 2020 - December, 2020*

- Utilized Data Science methodologies such as CRISP-DM to align business requirements with data-driven solutions.
- Mastered and implemented SQL and NoSQL databases (MySQL and Mongo DB) for data analysis and extraction processes.

## EDUCATION

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### National Autonomous University of Mexico, UNAM.

*Bachelor of Engineering in Software Engineering*

*September, 2017 - December, 2021*

- Cumulative GPA: 9.7 / 10
- First place winner of Robotics Tournament for the 40th anniversary of the Software Engineering career, 2017
- Relevant Coursework: Artificial Intelligence, Pattern Recognition, Natural Language Processing, Mobile Robots, Data Mining, Data Structures and Algorithms, Statistics and Probability

## SKILLS

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- **Languages:** Spanish(Native), English(Advanced - Proficient), Portuguese (Beginner)
- **Programming Languages:** Python, R, C++, HTML-Javascript
- **Machine Learning:** TensorFlow, Keras, OpenCV, Scikit-Learn, NLTK, Statsmodels
- **Data Manipulation and Big Data :** Pandas, Numpy, Dask, PySpark, Azure Databricks
- **Miscellaneous technologies :** SQL, Github, ROS, Knime, Power Platform(Power Apps, Power Automate, Power Bi)
- **Certifications:** Six Sigma - Whitebelt