

Enrique Alexander Luna Sanchez

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Summary

Third-semester data science & mathematics student with **GPA 97/100**, hands-on **machine learning** and **optimization** projects, and experience in **robotics** teamwork. **Python**, **C++**, **MATLAB** and analytical skills to apply in real-world problems;

Education

Tecnológico de Monterrey

Expected may 2028

B.S. in Data Science & Mathematics Engineering

GPA: 97/100

Relevant Coursework: Multivariable Calculus, Linear Algebra, Probability & Statistics, Object Oriented Programming

Technical Skills

Programming: Python; C++; MATLAB; Arduino

ML/DS: CNNs, Supervised Learning, Data Analysis, Optimization with Metaheuristic Algorithms

Tools/Libraries: NumPy, pandas, scikit-learn, TensorFlow/Keras, Git

Projects

Breast Cancer Detection with CNN

Python, TensorFlow/Keras, NumPy, pandas

- Developed a **convolutional neural network** to classify ultrasound images; **achieved 96% accuracy**.
- Produced a web application to use the model.

Material Waste Optimization for Chancellery Manufacturing *python, Simulated Annealing*

- Modeled cutting-layout optimization for a stationery/chancellery process; applied a **metaheuristic algorithm** to minimize trim loss.
- Validated against heuristic baseline; **reduced waste by 65.7%** and improved material utilization under production constraints.

Leadership & Activities

Member, Artemis Robotics Team

Sept 2024 – Jul 2025

- Collaborate on mini-sumo robot design, electronics, and programming for state and national competitions.

Languages

Spanish: Native | **English:** C1