JORGE CARRASCO ISLAS

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EDUCATION

Benemérita Universidad Autónoma de Puebla, Puebla.   **Aug 2018 – Jun 2023**
Bachelor's degree in applied mathematics

SKILLS

Data Analysis: Excel, Power Query, Power Pivot, Pivot tables, Python, Pandas, Jupyter Lab, Anaconda
Data Visualization: Excel charts, Matplotlib, Seaborn, Jupyter Notebook, Streamlit
Machine Learning: Tensorflow, Keras, Ultralytics
Soft skills: Presentation skills – COMIA 2022, Teamwork

EXPERIENCE

TERMOMAGNÉTICOS Y CONTROL DE RADIACIONES   **Apr 2023 – Aug 2023**
Data Scientist
- I helped with the automation of the manual calculation of expenses related to a complex livestock process by being in close communication with the process manager and developing an interactive dashboard with **python**, **numpy** and **streamlit**. This tool reduced the time to calculate and break down expenses from **1 hour** (manual) to **1.5 seconds** (automated).
- I worked in conjunction with the engineering team on the automation of a security system for livestock facilities by developing **computer vision** models based on the **YOLOv5** architecture using the **Ultralytics** package. These models helped **detect anomalies** at access and control points, reducing the risk of sanitary violations and livestock losses within the facility.

ONE ONCOLOGY   **Jan 2023 – Apr 2023**
Internship – Development of AI models
- I helped automate 3D organ reconstruction from specialized medical images by developing models based on the **U-Net** architecture in **python** with **tensorflow**, which yielded **DSC** and **IoU** similarity scores greater than **90%**. These models significantly reduced the non-automated work performed by oncologists.
- I worked in **close communication** with **oncologists** and **software engineers** to develop a model that met medical requirements and was suitable for deployment by the engineering team.

CERTIFICATIONS, EDUCATION AND REASEARCH PAPER

- Excel: Mother of Business Intelligence course – Codebasics.io (June 2024)
- Research paper publication in: Research in Computing Science (August 2022)
- Participation and presentation at Mexican Congress of Artificial Intelligence (*Congreso Mexicano de Inteligencia Artificial*) – COMIA (May 2022)
- IELTS English certification C1 (April 2018)

ACADEMIC PROJECTS

Dynamic sales report in Excel   **June 2024**
- I used **Power Query** and **Power Pivot** in **Excel** to extract, transform and load (**ETL**) data from various CSV files, using and transforming columns to connect all the information in a data model.
- Defined financial metrics with Power Pivot from the data model using basic **DAX** expressions.
- I developed a dynamic sales report in Excel using **pivot tables**, **pivot charts** and **conditional formatting** with which you can consult insights effectively and visually, as well as expand the details if desired.