

# KIN OCÉLOTL C. LÓPEZ MENDOZA

## Data Scientist

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## CAREER OBJECTIVE

*In my pursuit of a role in Data Science, I bring together my expertise in statistical analysis and Python programming, reinforced by a solid foundation in astrophysics. My goal is to leverage data-driven insights to align with and enhance business strategies. Skilled in interpreting complex data, I aim to translate analytical findings into actionable business solutions, fostering an environment where data informs key decisions and drives business success.*

## EXPERIENCE

### Data Scientist

#### Evidente

📅 May. 2024 – Jan. 2025     📍 Mexico City, México

- Development in the field of Data Science with a focus on Natural Language Processing (NLP):
- Designed and implemented batch pipelines for Large Language Models (LLMs) using Gemini and Bison for automated conversation summarization.
  - Used **Python** and **Pandas** for data preprocessing, ETL workflows, and exploratory analysis.
  - Worked with **BigQuery**, **Firestore**, and **Vertex AI** to build and deploy scalable NLP systems on **Google Cloud Platform**.
  - Applied **prompt engineering** techniques to fine-tune and evaluate LLM responses across diverse conversation datasets.
  - Collaborated with teammates to integrate and supervise LLM-based features, including prompt review and testing.
  - Prototyped with **Google AI Studio** and **OpenAI's GPT** to benchmark and compare LLM performance.
  - Modularized the codebase using **Hexagonal Architecture**, **Vertical Slicing**, and **Screaming Architecture** principles to enhance maintainability and team onboarding.
  - Delivered ready-to-use Cloud Shell scripts to facilitate integration with Data Engineering pipelines.

### Sr. Salesforce Developer

#### Mi Lámina

📅 Aug. 2022 – Nov. 2023     📍 Mexico City - N.L., México

- Advanced Salesforce development and configuration:
- Designed and implemented complex validation processes to ensure business rule compliance.
  - Automated workflows using **Flows** and **Process Builder** for seamless user experiences.
  - Developed **Triggers** and **Queueable Apex** classes for event-driven and asynchronous processing.
  - Built complete, modular applications within the Salesforce ecosystem.
  - Utilized **SOQL (Salesforce Object Query Language)** to query and manipulate large data sets efficiently.

### Salesforce Developer

#### Grupo Salinas

📅 Feb. 2022 – Aug. 2022     📍 Mexico City, México

- Development of custom Salesforce interfaces and back-end logic:
- Created dynamic and responsive user interfaces using **Aura Components**.
  - Developed **Apex controllers** to handle complex business logic and data flows.
  - Implemented **Flows** for process automation and business logic orchestration.
  - Wrote optimized **SOQL queries** for data access and manipulation in custom components.

### Jr. Salesforce Consultant

#### Fast Cloud Consulting

📅 Aug. 2019 – Feb. 2020     📍 Mexico City, México

- Salesforce configuration and customization:
- Creation of custom fields and objects.
  - Implementation of **Process Builder** for process automation.
  - Development of validation rules to ensure data integrity.

## EDUCATION

### Bachelor in Mechatronic Engineering

#### Universidad Politécnica de Chiapas

📅 2012 – 2016     📍 Chiapas, Mexico

### M.Sc. Astrophysics

#### Instituto de Astronomía-UNAM

📅 2017 – 2020     📍 Mexico city, México

### Ph.D. Astrophysics

#### Instituto de Astronomía-UNAM

📅 2020 – current     📍 Mexico city, México

## PUBLICATIONS

### Tesis

- K. L. Mendoza, *Análisis estadístico de la correlación co-espacial de neutrinos de altas energías de ICECUBE posibles fuentes en rayos gamma*. 2020.

### Journal Articles

- K. O. C. López, A. M. Watson, W. H. Lee, R. L. Becerra, and M. Pereyra, "An evaluation of the BALROG and RoboBA algorithms for determining the position of Fermi/GBM GRBs," vol. 531, no. 2, pp. 2775–2784, Jun. 2024. DOI: 10.1093/mnras/stae1255. arXiv: 2404.19732 [astro-ph.HE].

## PROJECTS

### GRB Localization Algorithm Comparison

#### Ph.D. Project, Instituto de Astronomía - UNAM

 2020 – Current  Mexico City, México

- Web scraped observational data from the **Fermi** space telescope using **Selenium** and **Requests**.
- Built custom **ETL pipelines** with **Pandas** to process GRB localizations from two detection algorithms.
- Performed statistical analysis to evaluate and compare localization accuracy across methods.
- Results published as **first-author paper** in *Monthly Notices of the Royal Astronomical Society (MNRAS)*.

### Neutrino–Gamma-ray Correlation Study

#### M.Sc. Thesis, Instituto de Astronomía - UNAM

 2017 – 2020  Mexico City, México

- Developed an **astrophysical correlation analysis** between high-energy neutrinos (from ICECUBE) and gamma-ray sources.
- Applied the **Kolmogorov–Smirnov test** to analyze spatial distributions using **Pandas**, **NumPy**, and **Astropy**.
- Thesis: "*Análisis estadístico de la correlación co-espacial de neutrinos de altas energías de ICECUBE con posibles fuentes en rayos gamma*".

### Luminosity Distribution from SDSS Data

#### M.Sc. Coursework Project, Instituto de Astronomía - UNAM

 2018  Mexico City, México

- Processed **Sloan Digital Sky Survey (SDSS)** data to compute luminosity distributions of extragalactic sources.
- Implemented data processing and statistical analysis workflows using **Python** and **Pandas**.

## LANGUAGES

- English (TOEFL-ITP score of 510).
- Spanish (Native).