



# JOSÉ MANUEL CARPINTEYRO SÁNCHEZ

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MEXICAN WITH 10+ YEARS OF EXPERIENCE, PASSIONATE  
ABOUT TECHNOLOGY, AI & DATA SCIENCE.

## STRENGTHS

## LANGUAGES

- Creative
- Analytical
- Autodidact
- Innovative

- Spanish: Native
- English: Fluent
- French: Basic

## OTHER EXPERIENCE

- IoT projects integrating Deep Learning (Raspberry pi & Python)
- **Chatbot** development (OpenAI, LangChain, LlamaIndex, Chroma)

## TECHNICAL SKILLS

### Models and algorithms:

- **Machine learning** models (Regression, Classification, Clustering, Generative)
- **Deep learning** models. (Comp.Vision, NLP)

### Cloud infrastructure:

- **Google** Cloud Platform (Bigquery, VertexAI, Compute Engine, Kubernetes)
- **Azure** Cloud (SynapseAnalytics, Spark, DataFactory, BlobStorage, DevOps)
- Linux (Ubuntu / Raspbian)

### Data wrangling:

numpy, pandas, scypy, spark  
**Machine Learning & Deep L:**  
scikit-learn, XGBoost, LightGBM, tensorflow, keras, pytorch  
**Natural Language Processing:**  
transformers, nltk, spacy

### BI & Others:

matplotlib, seaborn, plotly, selenium, flask, django

### Advanced:

**Python, SQL,**  
SAS, VBA-Excel

### Intermediate:

R, C++, Neo4j, PowerBI

### Basic:

C#, Hive, Impala

## ACADEMIC TRAINING

2023	<b>Cloud Data Engineering Course</b> Google
2022	<b>Software Dev. BSc Degree</b> UMI University - studying 60% progress
2021	<b>Data Sci. Mgmt. Diplome</b> ITESM
2020	<b>Machine learning Course</b> London School of Economics
2020	<b>Quantum Comp. Course</b> IBM/QxQ/MIT
2019	<b>Deep learning Course</b> MIT
2018	<b>Risk Mgmt. Diplome</b> Circulo de crédito
2017	<b>Data Sci. MicroMaster</b> MIT
2016	<b>SAS for analytics Course</b> SAS - Course
2015	<b>Data Sci. Bus. Diplome</b> ITESM
2015	<b>French course</b> IPN
2014	<b>Business english Course</b> Malvern House (Dublin)
2013	<b>Actuary BSc Degree</b> Universidad Marista
2012	<b>Solvency II (R) Course</b> AMAT
2012	<b>Foxpro Diplome</b> IMAM - Diplome
2011	<b>Excel &amp; Macros Diplome</b> IMAM

## EXPERIENCE

### [08/22 - Today] - TCS Mexico - **Cloud Data Engineer**

- Help our partners achieve their goals through technological strategies.

### [08/21 - 08/22] - Shasa - **Data Science Senior Manager**

- To come upon business cases where data science may have a huge impact.
- To structure, develop and manage DS projects for digital transformation.

### [04/19 - 08/21] - Coppel - **Data Science Manager**

- To coordinate the different tasks of the team that include researching and creating effective methods to collect data, analyzing information, and recommending solutions to the business.
- Estimate monetary benefit of the developed data science projects.
- Development of credit risk models.
- Customer lifetime value design and calculation.

### [08/17 - 04/19] - Santander - **Data Science Manager**

- Development of regulatory credit risk models (PD, EAD, LGD) IRB & IFRS (Individuals and Companies).
- Development of stress test models.
- Regulatory documentation and follow up on audits.

### [10/15 - 09/16] - Metlife - **Senior Actuary**

- To provide subscribers mathematical tools for risk measuring.
- Pricing models development (Solvency II).
- Embedded value and reserves (RRC & IBNR) calculation.

### [10/13 - 10/15] - GNP - **Head of Department**

- Insurance products development (gather information, product definition, risk measuring and validation of legal implications)
- Pricing models development & Technical notes (Solvency II)

### [04/12 - 10/13] - GNP - **Data Analyst**

- Tool (programs) development (for risk measurement and pricing)
- To transform strategies into tables or parameters to deploy them.

### [06/11 - 04/12] - GNP - **Consultant**

- Operational KPI's and dashboards.
- To recommend strategies to improve quality and reduce execution times.

TECH

RETAIL

BANKING

INSURANCE