

Isidro Jara

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in isidro-jara

Professional Experience

Data Engineer & Data Warehouse Expert

Idorsia Pharmaceuticals Ltd

Basel, Switzerland

Jan 2024 – Present

- Developed and maintain +20 Power BI visual reports for the MSLs team, CRM team, and Global Medical Affairs department. Owner and person of contact of these reports.
- Assisting local and global teams in identifying potential KPIs and uncovering valuable insights from data to enhance management decision-making.
- Integrating backend raw data with frontend visuals to support the commercial data warehouse and analytics platform.
- Using MS Power BI for the visual development and deployment of reports, and SQL and Amazon Redshift for data ingestion, structuring and retrieval.
- Designing and maintaining a reliable and cost-effective data strategy for the commercial data warehouse and analytics platform, ensuring it serves as a single source of truth.

Data Engineer & Business Analyst

Hoffmann-La Roche

Basel, Switzerland

Jan 2022 – Dec 2023

- Responsible for gathering, prioritizing and documenting product mapping requirements, including functional requirements, non functional requirements, interactions and flows.
- Responsible for mastering current products and supporting infrastructure thereby capturing the difference between releases as the products evolve.
- Analyzing data for reporting and managing metrics across data from multifunctional teams for insights discovery. Software tools used: Python, SQL, Tableau, Microsoft Excel.
- Managing Jira software for Agile project management, issue tracking and traceability of errors and bugs. Exporting data from several databases for reporting and visualization.

Data Engineer

Hoffmann-La Roche

Madrid, Spain

Sep 2020 – Jan 2022

- Data Engineer for the Global R&D Data team. Definition of Source to Target Mapping, Reference Data Management, Integration Rules and migration files for MDM Customer data in Swiss country. Data Integration owner of medical Swiss data (HCOs and HCPs) from Salesforce CRM, Coordination across Swiss affiliate, Global Data team and External Data Provider.
- Visualization developer for the Core Reports team: Analysis of raw data, integration across multiple databases and development of Market Performance, Medical Activity and Indonesia Sales Forecasting Tableau dashboard projects.
- Data Engineer for the Graph DB discovery project: Data management approaches with relational and graph databases (PostgreSQL, Neo4j).

Data Engineer

NTT Data

Madrid, Spain

Oct 2018 – Sep 2020

- Defining and implementing data architectures. Tools used: Python as backend (libraries: numpy, pandas, matplotlib, BeautifulSoup, etc.); Apache Spark, Hive, SQL, and Tableau for Big Data analysis; atabase technologies: Neo4j, PostgreSQL, MySQL; Web frontend technologies for product visualization; Docker and Amazon Web Services (AWS) for cloud data infrastructure deployment; Implementation of computational algorithms (Monte Carlo methods, etc.); Git for control version.

Data Engineer

Sky Italia

Milano, Italy

Oct 2016 – Oct 2018

- Working in Business Intelligence (BI) and Extract, Transform, Load (ETL) dataflows. Create and maintain data pipelines. Managing Data Warehouse for storing and processing information.

- Tools used: SQL (Oracle DB, PostgreSQL), Informatica PowerCenter software. -
- Main teacher of the "SQL fundamentals" course for Indra Academy (Indra's recruitment and training program), in Italian, and later coordinator of the hired students.

Academic background

PhD in Artificial Intelligence

International University of La Rioja

*Oct 2024 – June 2028
(planned)*

- Explainable Machine Learning in Complex Medical Cases: Unveiling the Long-Term Consequences of Preeclampsia through Artificial Intelligence.

Master's Degree in Artificial Intelligence

International University of La Rioja

Feb 2023 – Oct 2023

- Natural Language Processing, Machine Learning and Deep Learning technologies, Planning and development algorithms and Computer vision. Master Thesis: Explainable NLP for short answer scoring system.
- Overall grade: 9,05/10.

Master's Degree in Cybersecurity and Information Security

University of Castilla-La Mancha

Mar 2016 – Dec 2019

- Master Thesis: Implementation of a Machine Learning clustering algorithm for attack detection on web applications.

Master's Degree in Telecommunications Engineering

Technical University of Madrid

Sep 2014 – July 2016

- Second year: Erasmus program at Telecom ParisTech University (Paris, France).

Degree in Technology and Telecommunication Services Engineering

Technical University of Madrid

Sep 2009 – July 2014

Degree in Mathematics

National University of Distance Education

*Sep 2016 – July 2027
(planned)*

- ECTs achieved so far: 141 / 240

Degree in Philosophy

National University of Distance Education

*Jan 2017 – July 2026
(planned)*

- ECTs achieved so far: 156 / 240

IT Certifications

- Certified Ethical Hacker (CEH) - *Sep 2020*
- Cisco CCNA Security - *Jan 2020*
- Neo4j Certified Professional - *Dec 2018*
- Scrum Developer Certification and Scrum Fundamentals Certified - *Oct 2018*
- Prince2 Foundation - *July 2018*
- PowerCenter Data Integration 10: Developer, Specialist Certification - *Mar 2018*
- Oracle Database 12c: SQL Fundamentals - *Dec 2017*
- Google Analytics Certification - *Jul 2017*

Languages

English: C1 level

Italian: B2 level

French: A2 level

Spanish: Mother tongue