Luis Erwin Condori Mamani

Petroleum Engineer | Data Scientist (ML/AI) | Backend Developer

+591 75858680
La Paz, Bolivia
luiserwinc@gmail.com
linkedin.com/in/luiscm17
github.com/luiscm17
Portfolio: luiscm17.github.io
Web Site: https://luiscm17.github.io

About Me

Petroleum Engineer with experience in digital transformation and application of data science to the energy sector. I have developed analytical solutions using **Python**, **Java**, **Power BI** and **Azure Cloud** to optimize technical processes and support decision-making in the hydrocarbon industry.

I hold official certifications such as **Azure Data Scientist Associate**, **Azure AI Engineer Associate** and **OCI Data Science/Generative AI Professional**. I have participated in multiple technology hackathons (Microsoft and Oracle), developing innovative solutions in machine learning and artificial intelligence applied to business and technical challenges. My experience spans from conception to deployment of predictive models in production environments.

My primary interest lies in applying artificial intelligence and predictive analytics to optimize drilling and operations in *oil & gas*, combining domain technical knowledge with software development skills.

Skills

Petroleum Engineering Software	Petrel (advanced), Aspen HYSYS (intermediate), Pipesim (intermediate), Techlog (intermediate), AutoCAD (advanced)
Simulation and Modeling	Kappa Workstation (intermediate), ECLIPSE (basic), ArcGIS (intermediate)
Programming and Data Tools	Python (intermediate: ML, data science), Java (intermediate: Spring Boot), SQL (intermediate), FastAPI (intermediate), Docker (intermediate)
Cloud Services & AI Platforms	Microsoft Azure (advanced: Azure AI, Functions, OpenAI, CLI, MCP), Oracle Cloud (OCI Data Science, Generative AI, Foundations), Microsoft Agent Framework (intermediate), Azure AI Foundry/SDK (intermediate), RAG & Vector DBs (intermediate: ChromaDB, Docling, Azure AI Search)
Data Analysis and Visualization	Mathematical/statistical modeling, operational indicators, quantitative drilling research, Power BI (intermediate)

Technical Experience

Project Technician – Gas Installations
Jan 2025 — Aug 2025
VIMAVI Constructora
La Paz, Bolivia
- Designed plans and estimated costs for gas installations using AutoCAD.
- Optimization of design processes, achieving greater efficiency in technical deliverables.

Freelance Consultant in Analytics and Automation
Jul 2024 — Jun 2025
Private clients
Remote
- Implementation of data cleaning, transformation, and automation processes for technical analysis in Power BI
- **Achievement**: Standardization of deliverables under confidentiality agreements and best governance practices.

Operations Assistant
Apr 2023 — Sep 2023
Agencia Nacional de Hidrocarburos (ANH)
La Paz, Bolivia
- Technical support and data management in the B-SISA system.
- Inspection and verification of regulatory compliance at service stations.

Research Assistant (Eurekarburos 2.0)
Jul 2022 — Dec 2022
Agencia Nacional de Hidrocarburos (ANH)
La Paz, Bolivia
- Development of software and data analysis applied to the petroleum industry.
- **Achievement**: 1st place for innovation in predictive analysis.

Project Technician – Gas Installations
Feb 2022 — Jun 2022
VIMAVI Constructora
La Paz, Bolivia
- Design of plans and cost estimation for gas natural projects.
- **Achievement**: 60% reduction in project delivery times.

Safety Supervision Assistant (SMS)   Oct 2021 — Dec 2021
Oil Well Drilling   *El Alto, Bolivia*

- Supervision of civil works and logistics management in drilling projects.
- **Achievement**: Successful completion of project execution in full compliance with technical and safety standards.

EDUCATION

Petroleum, Gas, and Process Engineering   **Jul 2024**
Universidad Mayor de San Andrés   *La Paz, Bolivia*

CERTIFICATIONS & COURSES

CERTIFICATIONS

AI-102: Azure AI Engineer Associate, *Microsoft Azure*	Dec 2025
1Z0-1110-25: OCI Data Science Professional, *Oracle Cloud Infrastructure*	Oct 2025
1Z0-1127-25: OCI Generative AI Professional, *Oracle Cloud Infrastructure*	Oct 2025
1Z0-1085-25: OCI Foundations Associate, *Oracle Cloud Infrastructure - ONE Education - Alura Latam*	Oct 2025
DP-100: Designing and Implementing a Data Science Solution on Azure, *Microsoft Azure*	Jan 2025
AI-900: Microsoft Azure AI Fundamentals, *Microsoft Azure*	Jan 2025
Level 1 Programme (English), *International Well Control Forum I.W.C.F.*	Nov 2024
GitHub Certification Foundation, *Github*	Aug 2024

COURSES

Develop AI solutions in Azure, *Microsoft Learn*	Jul 2025	Dec 2025
Back-end Developer, *ONE Oracle Next Education Alura*	Jan 2025	Aug 2025
Well Operations Crew Resource Management (WOCRM), *International Well Control Forum I.W.C.F.*	Oct 2024	Nov 2024
Well Control, *SPE UMSA Chapter Directional Drilling*		Feb 2024
Supervisor Program for Occupational Health, Safety and Environmental Management Systems (ISO 45001:2018 & ISO 14001:2015), *IBNORCA*	Mar 2023	Apr 2023
Technical Project II (Natural Gas), *Escuela Internacional para la Educación Superioir E.I.E.S.*	Jan 2022	Mar 2022
Gasist – Electro fusion welding of high density polyethylene, *INFOCAL*		Jan 2022
Specialist in Process Simulation with Aspen Hysys, *EngGold*	Mar 2021	Abr 2021

PROJECTS & ACHIEVEMENTS

Recognition and Leadership

- **President of Membership, SPE UMSA Chapter**   Apr 2023 – Apr 2024
  Management of members, coordination of technical events and mentorships for petroleum engineering students.
- **Volunteer Speaker, Energy4Me – SPE UMSA**   Nov 2023
  Energy sustainability talks for high school students.
- **1st place in Eurekarburos 2.0 (ANH)**   Dec 2022
  Innovation in data analysis applied to the oil and gas industry.

Technical Competencies and Projects

- **Hackathon ONE Latam, ONE Education - Alura**   Dec 2025 – Jan 2026
  ChurnCheck: predictive customer churn model with Python (scikit-learn) and REST API in Java/Spring Boot.
- **Hackathon Innovations Challenge V5, Microsoft**   Jun 2025
  Oryx AI: prediction and prevention system for space debris collisions with Azure AI.
- **Hackathon Innovations Challenge V4, Microsoft**   Mar 2025
  3rd place. **Symphony Prompt**: prompt preprocessing system for large language models with Azure AI.
- **Self-directed personal projects**   2023 – Present

  - **Pilot-AI Drill**: ML model to optimize Penetration Rate (ROP) and minimize Specific Mechanical Energy (MSE).
  - **Retrievbit**: technical-educational site about petroleum engineering (Astro, React, Tailwind CSS).
  - **Eduweaver**: multi-agent platform for scientific content creation using RAG, Microsoft Agent Framework, Azure OpenAI, ChromaDB, Docling.
  - **ForoHub**: educational REST API forum with Java, Spring Boot, MySQL, Hibernate/JPA.

LANGUAGES

- Spanish — Native
- English — Basic