

# Luis Erwin Condori Mamani

Petroleum Engineer | Data Scientist

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## ABOUT ME

Petroleum Engineer focused on drilling and process optimization using AI and data analytics (Azure AI/Data Scientist). Specialized in developing Python-based predictive models to mitigate drilling risks, validated with data from Bolivian oilfields (ANH). Experienced in agile project management: executed 18 residential gas installation projects in 22 days (VIMAVI) and optimized vehicle registration in the ANH's B-SISA system, ensuring fuel control and supervision in compliance with regulations. Active member of the SPE UMSA Chapter, currently dedicated to personal projects applying AI and data analytics (Azure AI/Data Scientist) to challenges in the hydrocarbon industry.

## SKILLS

Software	AutoCAD, OpenWells, WellPlan, Petrel, ArcGIS, AspenONE (Hysys), Kappa Workstation, PowerBI, Tableau, Latex
Programming	Python (Machine Learning, Mathematical Modeling), SQL, MySQL
Cloud Platforms	Microsoft Azure (AI-900, DP-100), Azure Machine Learning
Data Analysis	Quantitative Research, Mathematical Optimization, Microsoft Excel (Advanced)
Languages	Spanish (Native), English (Professional Working Proficiency)

## CERTIFICATIONS

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
GitHub Certification Foundation, Github	Ago 2024

## TECHNICAL EXPERIENCE

<b>Operations Assistant</b> National Hydrocarbons Agency (ANH)	<b>Apr 2023 - Sep 2023</b> La Paz, Bolivia
<ul style="list-style-type: none"><li>Technical support and user assistance for the B-SISA system (vehicle registration, data validation).</li><li>Database management: updates, reporting, and handling modification requests.</li><li>On-site inspections at service stations to verify system implementation (regulatory compliance).</li><li><b>Key Achievement:</b> Spearheaded the successful B-SISA rollout, optimizing vehicle registration and control processes.</li></ul>	
<b>Research Assistant (Eurekarburos 2.0 Program)</b> National Hydrocarbons Agency (ANH)	<b>Jul 2022 - Dec 2022</b> La Paz, Bolivia
<ul style="list-style-type: none"><li>Developed Python-based software to optimize oil well production testing (team lead).</li><li>Conducted data analysis using Python and ArcGIS to identify strategic industry patterns.</li><li>Prepared technical documentation and presented findings to executives and industry experts.</li><li><b>Key Achievement:</b> Awarded 1st place in Eurekarburos 2.0 for innovative petroleum analysis project.</li></ul>	
<b>Gas Installation Project Technician</b> VIMAVI Constructora	<b>Feb 2022 - Jun 2022</b> La Paz, Bolivia
<ul style="list-style-type: none"><li>Designed AutoCAD blueprints for residential gas installations (regulatory compliance).</li><li>Cost estimation and client coordination to ensure satisfaction.</li><li><b>Key Achievement:</b> Achieved 60% faster project delivery through process optimization.</li><li><b>Key Achievement:</b> Executed 18 projects in 22 days, accelerating YPFB Redes approvals.</li></ul>	

Safety Supervision Assistant

Oil Well Drilling

Oct 2021 - Dec 2021

El Alto, Bolivia

- Supervised civil works for secondary gas networks (quality control of HDPE polyethylene welds).
- Managed logistics for personnel, materials, and equipment.
- **Key Achievement:** Completed project within 3 months while meeting technical standards.

EDUCATION

Petroleum, Gas, and Process Engineering

Universidad Mayor de San Andrés

Jul 2024

La Paz, Bolivia

- **Focus:** Drilling engineering, process optimization with Machine Learning.
- **Activities:** Active member of the **SPE UMSA Student Chapter**.

COURSES

Azure AI Engineer Associate, Microsoft Learn	Nov 2024	Actual
Azure Data Scientist Associate, Microsoft Learn	Ago 2024	Dec 2024
Aspectos básicos de Azure AI, Microsoft Learn	Ago 2024	Dec 2024
Well Operations Crew Resource Management (WOCRM), International Well Control Forum I.W.C.F.	Oct 2024	Nov 2024
Level 1 Programme (English), International Well Control Forum I.W.C.F.	Oct 2024	Nov 2024
Introducción a la Programación, Código fácilito	Jun 2024	Nov 2024
Ciencia de Datos con Azure, Código Facilito	Mar 2024	May 2024
Well Control, SPE UMSA Chapter Directional Drilling	Feb 2024	Feb 2024
Programa de Supervisor de Seguridad Industrial y Medio Ambiente según NB/ISO 45001:2018 y NB/ISO 14001:2015, IBNORCA	Mar 2023	Abr 2023
Curso de Bases y conceptos de la Ciencia de Datos, Código Facilito	Oct 2022	Nov 2022
Técnico de Proyectos II (Gas Natural), Escuela Internacional para la Educación Superior E.I.E.S.	Ene 2022	Mar 2022
Gasista – Soldadura de Polietileno de Alta Densidad por electro fusión, INFOCAL		Ene 2022
Especialista en Simulación de Procesos con Aspen Hysys, EngGold	Mar 2021	Abr 2021

ACTIVITIES

Leadership and Technical Community

- **Membership President, Society of Petroleum Engineers (SPE UMSA Chapter)** Apr 2023 – Apr 2024
  - Managed 150+ members and coordinated technical events on emerging drilling technologies.
  - Implemented a mentorship program for petroleum engineering students.
- **Volunteer Speaker, Energy4Me SPE UMSA Chapter** Nov 2023
  - Delivered technical talks on energy sustainability to high school students.

Technical Competitions and Development

- **Python Challenge, Code Facilito** Feb 2024
  - Developed a script for oil and gas data analysis automation (GitHub).
- **Self-Directed Personal Projects** 2023 – Present
  - Machine Learning models for drilling optimization (Python, TensorFlow).
  - Process automation using Python in oil and gas simulation projects.