

# FRANK CHIPANA

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## PROFESSIONAL SUMMARY

Data Scientist and AI professional with strong experience leading and implementing advanced analytics and artificial intelligence solutions across mining, industrial, and commercial environments. Specialized in predictive modeling, time series analysis, computer vision, and demand elasticity, with a proven track record of delivering measurable business impact through optimized maintenance planning, increased sales, improved operational safety, and enhanced decision-making. Experienced in designing end-to-end data solutions, including Python-based ETL pipelines, machine learning models, OCR and facial recognition systems, and executive dashboards in Power BI, integrating technical rigor with business strategy. Adept at collaborating with cross-functional teams, supporting after-sales and warranty operations, and translating complex data insights into actionable outcomes for tactical and strategic leadership.

## SKILL SUMMARY

### Technical Skill:

- Programming Language: Python (Advanced), SQL (Intermediate), JavaScript (Intermediate), ApacheSpark
- Data Analysis and Visualization: Pandas, Numpy, Matplotlib, Seaborn, Microsoft Power BI, Looker Studio.
- Machine Learning: Experience in building and evaluating machine learning models for classification, regression, clustering, prediction
- Cloud Services: GCP (Big Query, Vertex AI), Azure

### Soft Skill

- Problem Solving: Ability to tackle complex problems by applying analytical and critical thinking skills.
- Communication: Strong verbal and written communication skills to convey technical concepts to non-technical stakeholders.
- Collaboration: Experience collaborating with cross-functional teams to drive data-driven decision-making processes.

## PROFESSIONAL EXPERIENCE

### Ferreycorp S.A.A

Data Scientist :

Lima, Perú

November 2024 - December 2025

- I developed a predictive wear model for undercarriage components in mining equipment using time series analysis, multivariate regression, and customer clustering, optimizing maintenance planning and generating a 10% increase in related sales.
- I led the PPE detection model within the autonomous weighing project, leveraging computer vision techniques (YOLO / object detection), implemented in entry-point cameras to enhance operational safety.
- I implemented an OCR-based system for automatic identification of license plates and container codes, improving traceability and reducing operational time during cargo intake.
- I conducted price–demand elasticity analyses for key business lines, generating insights that enabled optimization of commercial strategies and profit margins.
- I developed opportunity prioritization and scoring models, enabling the identification of high-conversion-probability clients and improving sales team efficiency.

- Provided support to branch offices in the after-sales area for warranty service operations.
- Developed a facial recognition model for driver authentication, raising access control standards and reducing manual identification errors.
- Built executive dashboards in Power BI by business unit, integrating model performance KPIs, operational metrics, and impact analysis to support tactical and strategic decision-making.
- Developed Python-based ETL pipelines for data extraction and processing.
- Designed and delivered Power BI dashboards by business unit.
- Managed work orders to ensure proper cost allocation and closure.
- Coordinated with manufacturing partners for technical service (ET) records and warranty claims.
- Managed technical knowledge materials to support operational and technical teams.

### **ASR Agrícola S.A.C.**

Lima, Perú

Project Engineer

January 2017 - September 2019

- Developed projects for the implementation of new crops.
- Implemented sensor-based monitoring systems for agricultural oversight.
- Design and implementation of technical drip irrigation for avocado trees.
- Manage the database for the inventory of agrochemicals and fertilizers

## **EDUCATION**

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**Universidad Privada de Ciencias Aplicadas - UPC**  
Master's degree, Data Science

Lima, Perú  
2023 - 2025

**Universidad Nacional de Ingeniería - UNI**  
Master's degree, Artificial Intelligence

Lima, Perú  
2025 - 2027

**Universidad Nacional Agraria la Molina**  
Bachelor's of Science, Agricultural Engineer

Lima, Perú  
2011 - 2016

**Universidad Politécnica de Catalunya - UPC**  
International Seminar on Big Data Management and Recommendation Systems (Ed. 2024-2025)

**Google Advanced Data Analytics Certificate**  
[https://www.credly.com/badges/8c45a14c-cfec-46bd-a825-e6c7c9df153f/public\\_url](https://www.credly.com/badges/8c45a14c-cfec-46bd-a825-e6c7c9df153f/public_url)

**Google Skill Courses**  
[https://www.skills.google/public\\_profiles/1e2619c4-a6db-41bc-9c3d-3a3b8d701295](https://www.skills.google/public_profiles/1e2619c4-a6db-41bc-9c3d-3a3b8d701295)

## **REFERENCE**

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AI & Analytics Center Leader Ferreycorp

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