

FRANK CHIPANA

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PROFESSIONAL SUMMARY

Data Scientist & AI Leader specializing in deploying high-impact analytics and computer vision solutions that drive measurable business outcomes across mining, industrial, and commercial sectors. Proven ability to translate complex data challenges into revenue-generating strategies—delivering \$1.5M+ in sales growth, 83% efficiency gains, and enterprise-wide safety improvements. Expert in end-to-end solution architecture: from Python-based ML pipelines and predictive modeling to executive dashboards and cross-functional stakeholder alignment. Recognized for bridging technical innovation with commercial strategy to enable data-driven decision-making at all organizational levels.

PROFESSIONAL EXPERIENCE

Ferreycorp S.A.A - Lima - Perú

Nov. 2024 - Dec. 2025

Data Scientist :

- Spearheaded predictive analytics initiative for mining equipment maintenance, leading cross-functional teams to develop time series and regression models that optimized maintenance planning—driving \$1.5M in incremental sales through data-driven customer segmentation.
- Championed safety innovation by designing and deploying a computer vision-based PPE detection system (YOLO) across autonomous weighing operations, setting new safety standards for facility entry points.
- Engineered end-to-end OCR solution that transformed cargo intake operations, slashing processing time by 83% and establishing new efficiency benchmarks for logistics operations.
- Directed price elasticity research across strategic business lines, delivering executive insights that reshaped commercial strategies and margin optimization approaches.
- Architected opportunity scoring framework, empowering sales teams with predictive models that prioritized high-value prospects and measurably improved conversion rates.

Ferreyros S.A. - Lima - Perú

Oct. 2019 - Nov. 2024

Service Analyst Engineer

- 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

Jan. 2017 - Sept. 2019

Project Engineer

- 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

Portfolio Link:
<https://frankchip2023.github.io/portfolio/>

EDUCATION

Universidad Privada de Ciencias Aplicadas - UPC

Master’s degree, Data Science

Lima, Perú
Aug. 2023 - Jul. 2025

Universidad Nacional de Ingeniería - UNI

Master’s degree, Artificial Intelligence

Lima, Perú
Sep. 2025 - Now

Universidad Nacional Agraria la Molina

Bachelor’s of Science, Agricultural Engineer

Lima, Perú
Jun. 2011 - Dec. 2016

Universidad Politécnica de Catalunya - UPC

International Seminar on Big Data Management and Recommendation Systems

Barcelona, Spain
Feb. 2025 - March 2025

Google Advanced Data Analytics Certificate
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

SKILL SUMMARY

Category	Technologies & Skills
ML & AI	Scikit-learn, TensorFlow, PyTorch, YOLO, Time Series (ARIMA/Prophet), NLP, Computer Vision
Programming	Python (+ 3 years), SQL (+ 3 years), JavaScript, Git
Cloud & Data	GCP, Azure, ETL Pipelines, Docker, MLOps
Analytics	Pandas, NumPy, Power BI, Looker Studio, Statistical Modeling
Leadership	Cross-functional collaboration, Executive communication, Strategic problem-solving

REFERENCE

Remo Mengoni Passalacqua

AI & Analytics Center Leader Ferreycorp

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