

# Cesar A. Fernandez N.

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## EDUCATION

UNIVERSITY OF COLORADO BOULDER,

December 2026

*Master of Science in Computer Science*

- GPA: 3.9
- *Relevant coursework: Algorithms and Data Structures, Machine Learning, Advanced Artificial Intelligence and Big Data and Cloud Computing*

MASSACHUSETTS INSTITUTE OF TECHNOLOGY,

December 2023

*Micromaster in Statistics and Data Science*

- GPA: 3.7
- *Relevant coursework: Probability and Statistics, Fundamentals of Data Analysis, Machine Learning, Big Data Analytics, Capstone Exam and Project.*

UNIVERSITY OF CALLAO,

December 2015

*Bachelor of Science in Mathematics*

- GPA: 3.5
- *Relevant coursework: Calculus, Linear Algebra, Probability and Statistics, Differential Equations, Real Analysis, Abstract Algebra, Numerical Methods, Complex Analysis, Discrete Mathematics, Mathematical Modeling.*

## TECHNICAL SKILLS

Python, SQL, Spark, Bash, Docker, Git, CI/CD, Azure Databricks, Cloud Computing

## PROFESSIONAL EXPERIENCE

BCP – BANCO DE CREDITO DEL PERU

*AML Data Scientist*

October 2023 – Currently

- Led a network analysis project to develop a tool to support alerts in the investigation process that streamlined the identification of suspicious transactions, improving the overall efficiency of case review compliance, reducing the time to investigate suspicious transactions by 15%.
- Designed and applied machine learning models using network analysis variables such as PageRank to improve profiling of suspicious alerts, resulting in a more accurate detection rate (12% increase in accuracy) of money laundering activities.
- Collaborated with cross-functional teams to deploy an AI-based generative agent that automated the initial case review phase, significantly reducing manual effort and accelerating investigation timelines by 10% over baseline.
- Designed and implemented an advanced interactive client interaction analysis tool using NetworkX and Pyvis, inspired by IBM i2, to visualize and analyze client networks dynamically. This innovative solution streamlined investigative workflows, enhanced decision-making efficiency, and delivered cost savings of \$1.5 million for the bank.

FARMACIAS PERUANAS - INRETAIL

*Data Analyst Sr.*

September 2022 – September 2023

- Developed A/B testing methodologies to support marketing campaigns which enabled data-driven decision-making, resulting in a 15% increase in campaign effectiveness.
- Conducted comprehensive market research to create targeted campaigns focused on customer loyalty that achieved a 9% increase in repeat purchases and customer retention
- Designed and implemented dashboards to monitor loyalty communication in stores which provided real-time insights and improved the effectiveness of marketing strategies by facilitating timely adjustments.

## PROJECTS

ANC – SDG LATAM DASHBOARD

*Developer & Project Manager*

July 2023 – December 2023

- Developed an ETL for real-time extraction of SGDs from all over Latin America, with the objective of communicating to Peruvian NGOs the performance of their implemented plans.
- Developed an ETL for the extraction of audio from youtube journalistic summaries, and then with the use of the whisper model to obtain the text of these audios. With the objective of generating a sensitivity model that shows how the current situation impacts the achievement of the SGDs.
- Deployment of a CI/CD with github to integrate all the backend and frontend of the page displaying SGDs and sensitivity analysis.

## **LEADERSHIP EXPERIENCE**

BREIT

*Student of Advanced Program in Data Science & Global Skills*

July 2023 – December 2023

- Led a team of 5 students to develop a product developed with open source technology given the limited resources available. The insights gained from the project allowed Peruvian NGOs to know the performance of the state with the objectives.
- Collaborated with interdisciplinary members and presented what was developed to non-technical users. End-user satisfaction with the tool exceeded program expectations.
- Designed the technological infrastructure for the project, and trained my colleagues in agile methodologies for software development.