

Contact

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Top Skills

Azure DevOps
DevOps
Microsoft Azure

Languages

German (Limited Working)
Spanish (Native or Bilingual)
English (Full Professional)

Certifications

Fundamentos de Arquitectura de
Alta Concurrencia
Encoder-Decoder Architecture
Estrategia Empresarial
Databricks Lakehouse
Fundamentals
Curso Profesional de DevOps

Honors-Awards

Beca Asociación Nacional de
Empresarios - ANDI
Beca del municipio de Medellín
Becario ANDI - Colorquímica

Alejandro Aristizábal Sánchez

MLOps Expert | Tech Lead | Senior Machine Learning Engineer
Bogotá, Capital District, Colombia

Summary

Machine Learning Engineer with over 6 years of experience specializing in MLOps, technical leadership, and the end-to-end lifecycle of machine learning solutions. Proven expertise in designing, deploying, and managing scalable ML pipelines in production environments, with a focus on CI/CD automation, cloud computing, and data governance.

Demonstrated success in leading cross-functional technical teams, driving the delivery of data-driven products that generate measurable business impact, including multi-million dollar revenue increments through personalized offer optimization and data-driven experimentation strategies.

Passionate about mentoring and developing talent, establishing technical standards, and creating reusable frameworks for model monitoring, alerting, and automation. Adept at aligning data strategies with business objectives, empowering organizations to make informed, data-driven decisions at scale.

Experience

Capgemini Engineering
Senior Machine Learning Engineer
August 2024 - Present (9 months)
Medellín, Antioquia, Colombia

- Technical Lead for the Propel project, responsible for driving over \$5M in incremental revenue through personalized offer generation.
- Designed and implemented CI/CD pipelines using Azure DevOps and Databricks, ensuring continuous model retraining and optimization with MLOps best practices.
- Automated alert systems and optimized notification latency, improving real-time offer generation and reducing feedback loops.

- Led the expansion of the offer engine to the entire Celebrity Cruises fleet, personalizing offers by category and customer and impacting over 10M recommendations.
 - Migrated data sources to SharePoint Lists for enhanced data governance and security, while also implementing permission groups management for controlled data access.
- Introduced Asset Bundles for standardized CI/CD processes, ensuring faster and more reliable deployments across multiple environments.
- Designed a result measurement methodology for improved campaign performance assessment.

Universidad de Los Andes

Teaching Assistant

February 2024 - August 2024 (7 months)

- Developed the backend architecture for the university's new schedule selection platform.
- Built a middleware using Azure to interact with the university's data bus for real-time data exchange.

AB InBev

2 years 11 months

Senior Machine Learning Ops Engineer

August 2022 - August 2024 (2 years 1 month)

Bogota, D.C., Capital District, Colombia

- Technical Lead for MLOps in promotion algorithms across 8 countries, scaling models for promotional offers and pricing strategies.
- Co-developed a global Machine Learning platform in collaboration with the Global team.

Spearheaded the design, deployment, and maintenance of an application that interfaces with multiple APIs to deliver algorithmic recommendations.

- Drove \$100M+ in incremental revenue through the expansion of ML algorithms across regions.

Achieved 70%+ annual code quality improvement by reducing technical debt, creating code standards, and implementing automated testing frameworks.

Machine Learning Ops Engineer III

October 2021 - August 2022 (11 months)

Bogota, D.C., Capital District, Colombia

- Implementation and scaling of Machine Learning models throughout LatAm.

- Design and deployment of algorithms to the cloud using best computer science practices like data structures, algorithms and design patterns.

Bavaria - Colombia

Senior Machine Learning Engineer

October 2021 - August 2024 (2 years 11 months)

Comercial Nutresa

Data Analyst

February 2021 - October 2021 (9 months)

- Development of automation projects with RPA (TagUI, UIPath, VBA and Python)
- E2E programming of machine learning models for Transport and Indoor Operations macroprocesses.
- Use of advanced analytical techniques to propose new methodologies and indicators with impact at the Business and Grupo Nutresa level.
- Coaching in agile methodologies within the Department.

Azimut Energy

Data Analyst

January 2020 - February 2021 (1 year 2 months)

- Achieved over COP 1B in identified energy savings and executed projects worth COP 300M.
- Conducted energy consumption analysis and statistical modeling across 1,000+ measurement points, leading to client expansion and upselling strategies.
- Automated reporting tools and implemented energy optimization models for commercial decision-making.

Procter & Gamble

Project Leader

July 2019 - January 2020 (7 months)

Colombia

- Utilities Leader: Saving projects proposal and automation of data collection and visualization.
- Analytics of gas and energy consumption data and correlation with production.
- Evaluation and implementation of capital projects.
- Processes automation and digitization.

Colcafe SAS

R&D Intern

January 2019 - July 2019 (7 months)

Medellín

- Development and validation of packaging solutions for national and international customers.
- Design of programs for automation in decision making.
- Validation of new structures in compliance with Extended Producer Responsibility (EPR).
- Solution to Petitions, Claims and Complaints and development of test for validation.
- Implementation of projects at the packing level.
- Technical evaluation (laboratory tests, statistical analysis and specification of operation parameters).
- Financial evaluation (packaging material, labor and machine hour).

Colorquímica SAS

Process Engineer Intern

May 2017 - December 2018 (1 year 8 months)

La Estrella

- Resins plant productivity improvement project: Identification & Design.
- Training in Lean Manufacturing, Six Sigma and 5'S.
- Training in creative techniques and database management.

Education

Universidad de los Andes

Master's degree, Artificial Intelligence · (August 2023)

Eafit University

Process Engineer, Engineering · (2015 - 2019)

Eafit University

Certificate program, Project Management · (2018 - 2018)

Eafit University

Extension course, Excel · (2018 - 2018)

Eafit University

Extension course, Materials, Critical Fluids, Pharmaceutical products,
crystallization · (2018 - 2018)