

# Cristian Benalcázar

Data Analyst Sr | R & shiny developer | BI | Big data | GIS | Automation

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Quito, Pichincha, Ecuador

Specialist in data analysis and mining, business intelligence, and big data, with experience in developing data solutions and products, task automation, and analysis in banking, telecommunications, logistics, statistics, and public procurement. Focused on efficiency, strategic analysis, and decision-making support. Self-driven, proactive, and continuously learning.

## Work Experience

### Data Analyst Sr

Mar 2021 - Present

*Banco Pichincha | Quito, Pichincha, Ecuador*

Data research, integration, and analysis to support decision-making and financial product development.

Automation of analysis and reporting for OKR tracking.

Web scraping with R and Python.

Development of web forms with R, Shiny, and LaTeX on Azure, integrating data capture, reporting, and storage (Google Drive, Blob Storage, Azure AD).

Dashboard development and geographic analysis, including satellite crop monitoring.

Data support for the Business Tribe and participation in migration projects.

### Business Strategy and Intelligence Analyst

Apr 2018 - Mar 2021

*CNT Ecuador | Ecuador*

Handling data analysis requests, ensuring the identification of strategic solutions to effectively meet business needs.

Research, integration, and data analysis to support decision-making.

Design, development, and implementation of predictive and segmentation models, providing key insights into customer behavior to optimize decision-making.

Development of analytical solutions to enhance commercial strategies for customer acquisition, profitability, and retention, identifying behavioral segments to personalize offers and improve customer experience.

Availability of strategic information through optimized databases, facilitating the execution of tactical campaigns aligned with business strategies.

Definition, breakdown, and monitoring of commercial goals across all business lines.

Impact and feasibility analysis of technology migration projects, product configuration, and more.

### Manager team

Jun 2016 - Dec 2019

*R Users Group - Ecuador | Ecuador*

Founding member of the R Users Group in Ecuador.

Planning, coordination, management, and monitoring of operations.

Development of statistical products.

Trainer in R, data management, visualization, and dynamic reporting.

### Public Procurement Risk Specialist

Apr 2016 - Apr 2018

*SERCOP Ecuador | Ecuador*

Supervision and development of studies on risk identification in public procurement.

Implementation of methodologies to assess risks, supporting the oversight of procurement processes.

Development of mathematical and statistical models to evaluate and measure the evolution of risks in public procurement.

Automation of risk analysis, generating statistics, compliance indicators, and alerts for potential risks.

Automation of monthly, weekly, and daily reporting using Markdown, rpresenter, slidify, and LaTeX.  
Development and deployment of web applications (Shiny) for query, control, data capture, and visualization with R, integrated with Postgres, MySQL, and Oracle databases, featuring automatic processing and institutional network sharing with user authentication and role-based access.  
Data mining, text mining, linkage detection, and intelligent reporting.

## Senior Risk Analyst

Feb 2015 - Mar 2016

*PRODUBANCO - Grupo Promerica*

Preparation of statistics and monthly, weekly, and daily monitoring of the bank's key product portfolio nationwide, including: Credit Cards, Housing, Consumer Loans, and Automotive, focusing on admissions, delinquency, charge-offs, and recoveries.

Development and update of simulators for approval of various products.

Updating of payment capacity and assignment models.

Implementation of special analyses on charge-offs and recovery for portfolio sales.

Automation of statistical, micro, and macroeconomic analyses, with dynamic reporting.

## Statistical Certification Analyst

Apr 2014 - Feb 2015

*INEC Ecuador*

Analysis of the quality of statistical operations within the National Statistical System.

Development of tools for analyzing the quality of statistical production.

## Core Skills

Power BI, QGIS, R (Lenguaje de programación), Indicadores clave de desempeño, Atención al detalle, Información empresarial, Trabajo en equipo, Investigación, Control de presupuestos, Implementación de programas, Shiny developer, Automatización de procesos, Aplicaciones web, Análisis competitivo, Aplicaciones de los Sistemas de Información Geográfica (SIG), Automatización, Análisis de negocio, Visualización analítica, Amazon Web Services (AWS), Elaboración de informes

## Education

### Escuela Politécnica Nacional

Nov 2024

Master's in Information Systems, specialization in Business Intelligence and Big Data Analytics Data processing

### Telefonica Foundation

May 2023 - Jul 2023

Nanodegree in Transportation 4.0 - Technology Pathway Logistics, Materials, and Supply Chain Management

### Fundación Carlos Slim

Feb 2020 - Sep 2020

Technical Diploma in Business Intelligence Business Management Technology / Data Processing

### Fundación Carlos Slim

Jul 2018

Technical Diploma in Big Data Data Modeling and Storage / Database Management

### Tecnológico de Monterrey

Apr 2018

Specialization in Data Analysis for Decision Making

Data Collection, Exploration, and Use of Statistical Techniques for Data Analysis

### Fundación Carlos Slim

Jan 2018 - Jan 2018

Technical Diploma in Information Systems Analysis of Information Systems

### Universidad Andina Simón Bolívar Ecuador

Jul 2016

Advanced Specialist in International Financial Reporting Standards (IFRS) Management Accounting and Finance

### Johns Hopkins Bloomberg School of Public Health

Jun 2015

Data Science Specialization Data Processing and Data Processing Technology

**Escuela Politécnica Nacional**

Nov 2013

Engineer in Economic and Financial Sciences Economics

**Université Jean Monnet Saint-Etienne**

Mar 2013

Bachelor's in Economics and Management / Specialization in Applied Economics Economics

## Languages

**Español** (*NATIVE\_OR\_BILINGUAL*), **Inglés** (*PROFESSIONAL\_WORKING*)

## Awards

**Reconocimiento CoE de Datos y Analítica - DataViz Banco Pichincha**

Jun 2023

*DataViz Banco Pichincha*

Reconocimiento por destacado desempeño y por conseguir el 2do lugar en el Concurso Chapter Data Analyst.

**III Escuela Latinoamericana de Algoritmos**

Oct 2017

*Escuela Politécnica Nacional*

Seleccionado para participar en Cursos: Coloración de grafos, Algoritmos aproximados, grafos cuasi-aleatorios y teorema de regularidad.

Actividad organizada por el Centro de Modelización Matemática ModeMat de la Escuela Politécnica Nacional y Núcleo Milenio Información y Coordinación en Redes de la Universidad de Santiago de Chile.

**Becario Curso "Introducción a la Evaluación de Impacto"**

Sep 2017

*Centro Latinoamericano de Administración para el Desarrollo CLAD*

Curso realizado junto al Gobierno de Panamá por medio del (MEF), el Centro Regional para el Aprendizaje en Evaluación y Resultados (CLEAR) y la Dirección de Evaluación de Impactos de CAF Banco de Desarrollo de América Latina.

**Reconocimiento "YO SOY SERCOP"**

Apr 2017

*Servicio Nacional de Contratación Pública SERCOP*

Reconocimiento por Proactividad, buena actitud, ética profesional, compromiso organizacional y calidad en el trabajo.

**Becario Escuela Latinoamericana de Verano en Investigación Operativa ELAVIO 2017**

Feb 2017

*Centro Latinoamericano de Formación Interdisciplinaria CELFI - Universidad de Buenos Aires UBA - Miramar*

**Becario Curso Transporte Óptimo y Análisis de datos**

Nov 2016

*Centro Latinoamericano de Formación Interdisciplinaria CELFI - Universidad de Buenos Aires UBA*

## Certificates

**Microsoft Certified: Power BI Data Analyst Associate**

Feb 2025

*Microsoft*

**Conviértete en data scientist**

*LinkedIn*

**Learning Data Analytics Part 2: Extending and Applying Core Knowledge**

*LinkedIn*

**Power BI avanzado**

*LinkedIn*

## **Python para data scientist avanzado**

*LinkedIn*

## **R para data scientist avanzado**

*LinkedIn*

## **Conviértete en profesional de Big Data para los negocios**

*LinkedIn*

## **Data Visualization for Data Analysis and Analytics**

*LinkedIn*

## **Predictive Analytics Essential Training: Data Mining**

*LinkedIn*

## **2022-ACADEMIA DE AGILIDAD: FASE 1**

*Capacitación - Banco Pichincha*

## **Creating Maps with R**

*LinkedIn*

## **GitHub para programadores**

*LinkedIn*

## **Web Scraping with Python**

*LinkedIn*

## **Conviértete en data analyst**

*LinkedIn*

## **Python para data science y big data esencial**

*LinkedIn*

## **Data analyst: Técnicas y herramientas de informes avanzado**

*LinkedIn*

## **Data analyst: Técnicas y herramientas de informes esencial**

*LinkedIn*

## **Excel Business Intelligence 1: Obtener y Transformar (Power Query) (365/2019)**

*LinkedIn*

## **R para big data esencial**

*LinkedIn*

## **Aprende análisis de datos**

*LinkedIn*

## **Publications**