

Mirko Slovan Bozanic Leal

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Data Scientist with 5 years of experience, including 2 years leading data teams. Recipient of the Innovative Applications in Analytics Award (Franz Edelman). Experienced in the Fintech, Healthcare, Telecommunications, and Tax Franchise industries. Proven track record in building data teams from inception to execution, achieving results in sales growth, cost optimization, and product development.

Education

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|---|--|----------------------------|
| Massachusetts Institute of Technology (MIT) <i>Fire-Hydrant Award</i> | <i>Executive Education – Chief Digital Officer</i> | 2024 – 2025 2025 |
| Universidad de Chile <i>Universidad de Chile Scholarship</i> | <i>Industrial Engineering</i> | 2013 – 2020 2013 – 2019 |

Experience

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|--|---|-------------|
| Data Scientist | <i>Freelancer</i> | 2024 – 2025 |
| <ul style="list-style-type: none">• Óptima Ingeniería: 2024 - present<ul style="list-style-type: none">○ Created an odorant gas concentration forecasting pipeline to anticipate concentration peaks and proactively prevent them. Client: ECONSSA.○ Designed an anomaly detection system for water consumption by the company's customers. Client: SACYR.• LUMA: 2025 - present<ul style="list-style-type: none">○ Implemented a model responsible for downloading, tagging, filtering, creating, and applying to various agile purchases and public tenders. Client: LOGICAV.○ Created a tender recommendation model to select and apply on behalf of the user. Client: LUMA.• Quantum Analytics: 2025<ul style="list-style-type: none">○ Developed a regression model pipeline that selects the best available model to predict the proportions of construction items. Client: INGEVEC.○ Subsequently predicted the price of the building to be constructed. Client: INGEVEC.• ICEX360 (2025):<ul style="list-style-type: none">○ Participated in the creation of the <i>Business Insights – GrowthVision 360</i> product in PowerBI. Client: ICEX360.○ Responsible for displaying various tax franchise KPIs for Technical Executing Organizations (OTECs) and Technical Intermediate Training Organizations (OTICs) to show market benchmarks and provide competitive advantages to clients. Client: ICEX360.○ Developed a clustering pipeline for OTECs using sklearn models, selecting the best one based on Silhouette Score, Calinski-Harabasz, and Davies-Bouldin metrics. Client: ICEX360. | | |
| Head of Business Intelligence & Analytics | <i>OTIC de la Cámara Chilena de la Construcción</i> | 2023 – 2024 |
| <ul style="list-style-type: none">• Directed the OTIC's Business Intelligence consulting service, managing a team of 5 people. Increased service demand by 200% as a result of management initiatives.• Implemented a user prediction system for the franchise service for the Operations Management. Restructured management KPIs based on the new model.• Implemented a feature for visualizing tracking statistics for clients within the application offered by the company.• Created the ETL for reporting franchise indicators for OTIC clients. Integrated with SAP HANA using Python. | | |

- Performed predictive modeling of socioeconomic levels in Chilean census zones. This resulted in increased technical visits and improved commercial offers to customers.
- Created a model to anticipate customer faults using internet quality as a predictive variable. The model was used to reduce the cost of home service repairs through preventive assistance.

- Implemented a forecasting model to estimate the demand for ICU beds for the Government of Chile. This prevented 850 deaths during the pandemic in 2020.
- **Award Winner:** Innovative Applications in Analytics (Franz Edelman) - Analytics Society of Institute for Operations Research and the Management Sciences, Kinaxis, and Adelphi University, Catonsville, Maryland, USA 2022.

Technical Skills

Languages: English (Intermediate-Advanced).

Programming Languages: Python, R, MatLab, SAP HANA Analytics.

Python Libraries: pandas, numpy, tensorflow, keras, pytorch, statsmodels, sqlalchemy, pyodbc, dask, sklearn, darts, optuna, scipy, matplotlib, seaborn, plotly.

Databases: SQL, Apache Spark, Apache Hadoop, Apache Hive.

Visualization: PowerBI.

Version Control: GitHub.

Cloud: Azure, AWS.

Certifications

- [Liderazgo en la Innovación - MIT Professional Education](#)
- [Transformación Digital: Tecnologías y sus Aplicaciones - MIT Professional Education](#)
- [Applied Generative AI for Digital Transformation - MIT Professional Education](#)
- [Plataformas Digitales: Desarrollo y Toma de Decisiones - MIT Professional Education](#)
- [Leading in the AI Powered Future - MIT Professional Education](#)
- Data Leadership: Optimiza Sistemas de Datos para Impulsar tu Organización – MIT Professional Education

Research & Publications

Authorships

- [Affinities and Complementarities of Methods and Information Sets in the Estimation of Prices in Real Estate Markets](#)

Co-Authorships

- [COVID-19: Short-term forecast of ICU beds in times of crisis](#)
- [Analytics Saves Lives During the COVID-19 Crisis in Chile](#)

Other

Teaching Activities: Universidad de Chile.

- *Introduction to Algebra*
- *Introduction to Calculus*
- *Differential and Integral Calculus*
- *Linear Algebra*
- *Statistics I*
- *Statistics III*

Volunteering: Fundación Proyecto Reinserción.