Rodrigo Richards

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Professional Summary

Computer Science Engineer and Machine Learning Engineer with experience in architecture migration, predictive and prescriptive modeling, deep learning classification, and GenAI (RAG). Skilled in process optimization, MLOps integration, and cloud deployment (Azure, Databricks). Recognized for proactivity, fast adaptation, and continuous learning. Focused on applying advanced technologies to transform operations and deliver measurable business value.

EDUCATION

University of Concepción

Concepción, Chile Mar. 2015 - Sep. 2022

B.Sc. and M.Sc. in Computer Science and Engineering

University of Chile Diploma in Data Science (in progress)

Santiago, Chile Jul. 2025 - Present

EXPERIENCE

EY - AI & Data

Las Condes, Chile

Machine Learning Engineer

Nov. 2022 - Present

- Railway process optimization: Designed and maintained models using genetic algorithms and graph analysis to optimize wagon assignment at the largest railway in Mexico, reducing processing times and increasing profits by up to 10%. Managed **Databricks clusters** and led meetings with **Databricks** and Microsoft (in English) for architecture validation.
- Prescriptive mining model: Implemented a recommendation system for operational strategies using clustering, XGBoost, KMeans, GMM, and PCA, increasing profits up to 20% and improving operational efficiency.
- Architecture migration: Led migration from Azure Data Factory to Delta Live Tables (Databricks), achieving a 75% cost reduction. Coordinated migration of tabular models in Azure Analysis Services, engaging with international vendors.
- ETL and reporting: Developed ETL processes with Kedro and Databricks, orchestrated pipelines in Azure Data Factory and Synapse, and built Power BI dashboards for critical KPI visualization.

Punto Ticket S.A - Business Intelligence

Software Developer Intern

Las Condes, Chile

Jan. 2021 - Mar. 2021

• Chatbot and dashboard: Developed a chatbot using historical SQL data to streamline customer support, and created an R/Shiny dashboard with a predictive sales model, improving decision-making in the commercial area.

CERTIFICATIONS

Databricks Machine Learning Professional (2025)

Databricks Machine Learning Associate (2024)

Databricks Gen AI Fundamentals (2024)

Azure AI Fundamentals [AI-900] (2024)

Azure Fundamentals [AZ-900] (2024)

Data Science Bronze Badge (EY) (2024)

Cloud Computing Bronze Badge (EY) (2024)

Databricks Lakehouse Fundamentals (2023)

TECHNICAL SKILLS

Languages: Python, SQL, C/C++, C#, R, Java, Javascript

Technologies: Azure, Databricks, AWS, Docker, Apache Spark (PySpark), MLOps, CI/CD, DevOps, Git,

PyTorch, Computer Vision, LLM, Kedro, Delta Live Tables, Data Factory, Power BI, Linux

EXTRACURRICULAR ACTIVITIES

Diploma Tutor: AI and ML Applications, Pontificia Universidad Católica, Santiago, Chile

C++ Tutor, OCI Labs, Concepción, Chile

Teaching Assistant in Artificial Intelligence, University of Concepción, Chile

Teaching Assistant in Programming Languages (Python), University of Concepción, Chile

LANGUAGES

English: B2 - TOEIC L&R 910 pts.