

Sebastián Ignacio Urbina Gajardo

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EDUCATION

- **University of Chile** Santiago, Chile
MSc in Data Science; GPA: 6.7/7.0 2023 - 2024
 - Relevant Coursework: Natural Language Processing, Deep Learning, Geospatial Data Science, Databases, Data Mining.
- **University of Chile** Santiago, Chile
BSc in Industrial Engineering; GPA: 6.4/7.0 2018 - 2024
 - Best Graduate of the Year 2024 (1/244)
 - Relevant Coursework: Probability and Statistics, Modeling and Optimization, Operations Research, Business Analytics, Marketing II.

PROGRAMMING SKILLS

- **Languages:** Python, R, JavaScript, TypeScript, HTML, SQL, LaTeX
- **Cloud & DevOps:** AWS (Lambda, ECS, ECR, Step Functions, S3, RDS, DynamoDB, IAM), Docker
- **Technologies and Frameworks:** React, FastAPI, Github, Bitbucket.

EXPERIENCE

- **Entel** Santiago, Chile
Data Scientist Senior Specialist (AI Engineer) April 2024 - Present
 - Lead the development of an AI-driven tool that enables business areas to extract insights from unstructured data and generate new metrics to monitor key aspects such as customer satisfaction and adherence.
 - Designed a speech-to-text pipeline on AWS (S3, ECS, Lambda, Step Functions), achieving 50x costs compared to closed solutions while maintaining scalability.
 - Contributed to the development of a microservices-based RAG architecture using FastAPI, AWS (ECS, Lambda, RDS, DynamoDB), and LangChain.
 - Designed and implemented a CI/CD workflow in Bitbucket, automating the deployment of Docker images to Amazon ECR, eliminating manual processes, and significantly improving deployment efficiency.
- **Entel** Santiago, Chile
Data Scientist August 2023 - March 2024
 - Developed a clustering-based anomaly detection system for telecom antennas, identifying more than 50 antennas outliers.
 - Developed a novel indicator to quantify customer experience using quality and coverage metrics by processing 100M+ data points in AWS, incorporating geospatial analysis.
 - Built a customer segmentation model (Random Forest) based on mobile network quality indicators, reducing data processing by over +90% through feature selection while maintaining predictive performance.

PROJECTS

- **Agentic RAG:** A simple agentic RAG system leveraging the latest OpenAI SDK for agents.
- **Expense Tracker Bot:** Built a serverless Telegram bot using AWS Lambda, DynamoDB, and Google Sheets API to automate expense tracking, handling 1,000+ transactions.

CERTIFICATIONS

- **Meta:** Introduction to Front-End Development
- **DeepLearning.AI:** LangChain with Your Data
- **Coursera:** Sequence Models
- **Coursera:** Convolutional Neural Networks
- **Huawei:** Seeds for the future program
- **University of Chicago:** AI and Data Science for Leaders

TEACHING/LEADERSHIP EXPERIENCE

- **Teaching Assistant, University of Chile;** I served as a teaching assistant for the following courses: Data Analysis and Causal Inference, Introduction to Deep Learning, Finance II & Seminar of Thinking.
- **Seeds for the Future, Huawei;** One of the 50 chosen by Huawei to participate in the Seeds for the future program in the creation of technology-based solutions.