

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
 - Outstanding student: 2018, 2019, 2020, 2021 & 2022.
 - Relevant Coursework: Probability and Statistics, Modeling and Optimization, Operations Research, Business Analytics, Marketing II.

PROGRAMMING SKILLS

- **Languages:** Python, R, SQL, Latex.
- **Technologies and Frameworks:** AWS, Azure, GCP, Github, Bitbucket.
- **Python libraries:** Numpy, Pandas, Scikit-Learn, Matplotlib, ts-fresh, Seaborn, Wordcloud, Nltk, Spacy, Gensim, Selenium, Scrapy, Boto3, LlamaIndex, LangChain, Streamlit, Keras, Pytorch.

EXPERIENCE

- **Entel** Santiago, Chile
Data Scientist Specialist (AI Engineer) April 2024 - Present
 - I actively participated in leading, managing, and defining requirements with various business areas in Generative AI projects.
 - Developed and deployed a scalable Speech Analytics application for analyzing audio and text data, leveraging AWS services such as S3 and ECS to ensure efficient processing and storage.
 - Built a chatbot using Retrieval-Augmented Generation (RAG) architecture to answer questions based on documents hosted on AWS, leveraging services such as ECS, RDS and Lambda for seamless integration and scalability.
 - I developed an end-to-end process in AWS cloud to transcribe audio to text using Deep Learning models, extracting insights from the transcriptions using LLMs.
- **Entel** Santiago, Chile
Data Scientist August 2023 - March 2024
 - Developed a methodology using clustering to identify antennas exhibiting anomalous energy consumption.
 - Developed a novel indicator to quantify customer experience using quality and coverage metrics by processing hundreds of millions of data points, incorporating geospatial analysis.
 - Trained a random forest model to classify customers based on quality indicators of their mobile phone.

PROJECTS

- **Text Analysis** Text analysis of presidential candidates' programs in the 2021 presidential primaries in Chile.
- **Ask-to-me A** Chatbot created in Streamlit to answer questions about my CV using Llama-Index and ChatGPT.
- **Whisper APP** A streamlit app to utilize the open-source speech-to-text model developed by OpenAI for transcribing audio files.

CERTIFICATIONS

- **DeepLearning.AI:** LangChain with Your Data
- **Coursera:** Sequence Models
- **Coursera:** Convolutional Neural Networks
- **Huawei:** Seeds for the future program
- **HarvardX:** Exercising Leadership: Foundational Principles
- **University of Chicago:** AI and Data Science for Leaders
- **Coursera:** Improving Deep Neural Networks
- **Coursera:** Neural Networks and Deep Learning
- **University of Helsinki:** Certificate of Completion: Elements of IA

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.
- **Neighborhood Secretary, Huapi;** I Served as Secretary of the Neighborhood Association in my residential area.