Javier Arriagada Sanzana

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EDUCATION

Pontifical Catholic University of Chile   Santiago, Chile
Bachelor in Engineering in Data Science   *2021 – 2024*

EXPERIENCE

Graduation Project   Jul 2024 – Dec 2024
SummaPartners   *Santiago, Chile*

- Developed the project "Search for improvement opportunities and implementation of a detection model for illicit activities in a water company"
- Validated and strengthened my teamwork and problem-solving skills through creation and execution of a structured work plan
- The project culminated in an 11% increase in the detection of repeat fraud, improving significantly the performance of the model compared to its previous version.

PROJECTS

Search for improvement opportunities and implementation of a detection model for illicit activities in a water company | *Arima, LISA, DeepAR*   Jul 2024 – Dec 2024

- Discussion, planning, and implementation of a work framework
- Adjustment of ARIMA time series models for consumption prediction
- Spatial analysis of a variable using LISA autocorrelation
- Design of metrics for evaluation

Software for managing class materials | *Ruby on Rails*   Jul 2024 – Dec 2024

- Designed and developed server logic, data models, and controllers in Ruby on Rails
- Planned migrations to update data structures
- Wrote unit and functional tests with Minitest

Song recommendation for playlists | *ALS, Item-item, User-user, SBert*   Mar 2024 – Jun 2024

- Evaluation of baseline models
- Vectorization of lyrics using SBert

TECHNICAL SKILLS

Languages: Python, PostgreSQL, C/C++, SQL (Postgres), JavaScript, HTML/CSS, Ruby, R
Frameworks: d3.js
Tools: Git, Docker, Spark, BigQuery, Google Cloud Platform, VS Code
Libraries: pandas, numpy, matplotlib, seaborn, scikit-learn, pytorch, tensorflow, transformer, scipy, nltk

SOFT SKILLS

Teamwork: My projects and sports have emphasized the importance of teamwork
Leadership: In tackling projects effectively, I have delegated tasks and motivated my peers towards achieving objectives
Problem-Solving: My graduation project enhanced my critical thinking to address complex challenges
Empathy: My values are grounded in building strong interpersonal relationships based on trust