VLADIMIRO BELLINI

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Professional Profile

Professional with over 10 years of experience in data engineering, artificial intelligence, and information analysis. Specialized in **data architecture, machine learning, NLP, LLMs, and data flow optimization**. Experienced in open data integration, standardization, and process automation using cloud technologies and Big Data. Focused on scalable and sustainable solutions.

Professional Experience

Senior Data Engineer - Inter-American Development Bank (IDB)

📅 2020 - Present

- Development of **AI and NLP chatbots** (RAG, LangChain, OpenAI, Azure, Spark).
- Integration of open data standards (OCDS, EITI) and data quality management.
- Geospatial data processing and ETL workflows with **Apache Spark and Databricks**.
- Implementation of **FastAPI + LangChain** for natural language to SQL generation.

Data Engineer - United Nations (ECLAC)

📅 2020 - 2022

- Mapping, transformation, and standardization of macroeconomic data (SDMX).
- Refactoring of data pipelines and process automation.
- Endpoint integration and database optimization with **SQL Server and Python**.

Data Engineer and AI Developer - BIT-C Colombia

📅 May 2024 (6 months) - Remote

- Financial dialogue analysis and summarization project using **Azure OpenAI and Azure Functions**.
- SQL database connection, transcript processing, value extraction, and token consumption optimization.
- **Technologies**: LangChain, Azure Functions, Azure OpenAI, pyodbc, MSSQL, Pandas.

Co-Founder & Data Engineer - Sistemas Mapache

📅 2010 - Present

- Solutions in **GIS, geospatial analysis, and data visualization**.
- Pipeline development with **PostgreSQL, PostGIS, Airflow, and Metabase**.
- Process automation and data analysis in Linux environments.

Data Analyst - INDEC (National Institute of Statistics and Censuses)

📅 2018 - 2020

- Development of GIS module for the **National Agricultural Census**.
- Optimization of **routing and topological analysis algorithms with PGRouting**.
- Implementation of spatial analysis using **PostGIS and Python**.

Data Analyst in Fintech - SIISA

📅 2016 - 2019

- Optimization of financial scoring models through geospatial analysis.
- Data modeling, enrichment, and normalization.
- Implementation of scraping techniques and machine learning.

Education

🎓 **Master's in Data Exploitation and Knowledge Management** - Univ. Austral (2020 - 2022) 🎓
Data & AI Strategy Program - Univ. San Andrés (2023)

Technical Skills

- **Languages**: Python, SQL, T-SQL, Bash, JavaScript.
- **Databases**: PostgreSQL, MSSQL, NoSQL
- **Cloud & Big Data**: Azure, Databricks, Apache Spark, FastAPI, Airflow.
- **AI & NLP**: LangChain, OpenAI, NLP, RAG's, LLM models.
- **ETL & Data Engineering**: SSIS, Great Expectations, Gitflow.

Courses & Certifications

- **LangChain for LLM Applications** (DeepLearning.AI)

- **Prompt Engineering with ChatGPT** (DeepLearning.AI)

- **Machine Learning** (Stanford University)

- **Big Data & Machine Learning in Google Cloud** (Google)

- **Apache Spark SQL for Data Analysts** (Databricks)

- **ETL in Python** (DataCamp)

Highlighted Projects

- ◆ **AI chatbot development with FastAPI and LangChain** over open data.

- ◆ **Integration of LLM models into ETL processes** at IDB.

- ◆ **Big Data workflow optimization** with Spark and Databricks.

- ◆ **Data quality automation with Great Expectations**.

Alternative Projects

- **TostaTetris**: Experimental game using **Python and Pygame**, integrating a Makey Makey and a modified toaster as a controller. 🔗 [Repository](#)

- **Motion Déjà Vu**: Loop animation device based on modified hardware and **Kotlin** software. 🔗 [Repository](#)

Languages

Spanish: Native | English: Advanced