Bautista Fajardo

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GitHub | LinkedIn | Portfolio

EDUCATION

Universidad Nacional del Sur (UNS) Bahía Blanca, Argentina
Bachelor of Science in Computer Science March 2025 - Expected Graduation: December 2029

- Core Coursework: Algorithms, Data Structures, Linear Algebra, and Computing Logic.

SKILLS

- **Programming Languages:** Python (OOP, Type Hinting), Java, SQL.
- **Machine Learning & Data:** Scikit-Learn, XGBoost, LightGBM, Pandas, NumPy, SciPy.
- **Frameworks & Libraries:** FastAPI, Uvicorn, SQLite3, Joblib, PyArrow (Parquet), PyQt6, PySide6.
- **Tools & Methodologies:** Git, MLOps, REST APIs, SOLID Principles, Feature Store Pattern, Event-driven architecture, Data Serialization.

PROJECTS

WhereItLands | *End-to-End ML Football Match Predictor & MLOps API* *July 2026 - Present*
Stack: Python, FastAPI, Scikit-Learn, XGBoost, LightGBM

- Achieved a 64.5% accuracy rate in 3-way match outcomes (Win/Draw/Loss) by engineering a modular Machine Learning pipeline with different models.
- Estimated exact-score probabilities and forecasted 2026 World Cup results by implementing a Stacking Regressor ensemble and statistical Poisson regression models.
- Quantified team momentum and home-field advantage across 14,000+ historical matches by developing a custom Object-Oriented ranking system.
- Reduced model loading times and enabled real-time inference by building an asynchronous REST API with FastAPI and serializing artifacts using Joblib and Parquet.

Tivitapp | *Productivity Suite* *December 2025 - March 2026*
Stack: Python, PyQt6, SQLite3

- Simplified daily workflow management by engineering a responsive desktop GUI with PyQt6, enabling users to easily add, organize, and delete tasks.
- Designed an SQLite3 database for efficient data persistence and created an automated PDF reporting system, enabling real-time analytics distribution.
- Implemented a customizable Pomodoro timer with time tracking and a personalized queue to enhance workflow adaptability.

Media RS | *Content-Based Recommendation System* *January 2024 - February 2024*
Stack: Python, SciPy, Pandas

- Scaled the recommendation system to process millions of items with minimal memory usage by implementing cosine similarity algorithms and SciPy sparse matrices.
- Accelerated recommendation generation times by over 50% for large datasets by integrating Pickle-based data persistence to cache similarity matrices.
- Boosted recommendation relevance for end-users by developing a custom scoring system that merges similarity metrics with item popularity.