Lucas Burna
Machine Learning Engineer

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EXPERIENCE

Machine Learning Engineer — Jan 2025 – Present
Mutt Data — *Buenos Aires, Argentina*
- Led the productization of ML models by implementing MLops best practices, enhancing model performance, reliability, and scalability for client use cases.
- Bridged Data Science and Engineering roles by managing model lifecycle optimization, infrastructure orchestration, and data governance, ensuring seamless integration.
- Fostered innovation by researching and deploying emerging technologies, contributing to internal knowledge sharing and industry-leading AI/ML practices.

Software Engineer Freelance — Apr 2023 – Jun 2024
Scale AI — *Buenos Aires, BA*
- Improved chatbot efficiency by delivering high quality code for conversational AI systems, resulting in increased user satisfaction and response coherence.
- Enhanced dataset quality by collaborating with cross-functional teams to create high-quality datasets, increasing model accuracy.

Computer Vision Engineer — Aug 2021 – Feb 2023
Zowl Labs — *Buenos Aires, Argentina*
- Accelerated project workflow by overseeing the entire lifecycle of computer vision models, from data collection to deployment
- Optimized model performance by designing and implementing a physical prototype for a computer vision experiment setup, ensuring precise evaluation conditions.
- Delivered state-of-the-art research insights monthly, leading to continuous innovation and improved project outcomes.

EDUCATION

Electronic Engineering — Expected 2025
Universidad de Buenos Aires — *Buenos Aires, Argentina*
- Machine Learning (Introductory course): Covered mathematical and computational foundations.
- Blockchain Project: Developed simplified crypto coins using C++.
- Mobile robots course: Paradigm of control mobile robots, bayesians filters, SLAM and trajectory planning

PERSONAL PROJECTS

Conversational Chatbot — Jul 2024 – Sept 2024
NLP Project — *Python, LangChain, LlamaIndex, DeepLake*
- Increased chatbot engagement compared to traditional chatbots, through the integration of Meta-Llama-3-8B with Langchain, LlamaIndex, and DeepLake for efficient data retrieval.
- Engineered the chatbot using Retrieval-Augmented Generation (RAG) techniques to improve contextually relevant information fetching.

Stock Price Forecasting Interface — Jun 2024 – Jul 2024
Time Series Forecasting Project — *Python, TensorFlow, Streamlit, yfinance*
- Developed a user-friendly interface for accurate stock price forecasting using LSTM networks integrated with Streamlit for real-time visualization.
- Incorporated historical data from yfinance API to provide time series forecasting of stock prices, enhancing financial decision-making processes.

TECHNICAL SKILLS & LANGUAGE SKILLS

Programming Languages: Python, C++

Databases: PostgreSQL, MongoDB

Deep Learning Frameworks: TensorFlow, Keras, Scikit-learn, MLFlow

Libraries & Tools: NumPy, Pandas, Git, Docker

Languages: Spanish (native) | English | French

SOFT SKILLS

- Strong problem-solving and critical thinking
- Effective cross-functional collaboration
- Continuous learning and adaptability in dynamic environments
- Excellent verbal an communicational skills