

Lucas Burna

Machine Learning Engineer | Software Engineer

CABA, Argentina | +54 9 11-6559-6968 | burna680@gmail.com | LinkedIn | Github | Website

EXPERIENCE

Software Engineer Freelance

Apr 2023 – Jun 2024

Scale AI

Buenos Aires, BA

- Improved chatbot efficiency by developing and optimizing conversational AI systems, resulting in a 20% increase in user satisfaction and reducing response time by 15%.
- Enhanced dataset quality by collaborating with cross-functional teams to create high-quality datasets, increasing model accuracy by 7%.

Computer Vision Engineer

Aug 2021 – Feb 2023

Zowl Labs

Buenos Aires, Argentina

- Accelerated project workflow by 42% by overseeing the entire lifecycle of computer vision models, from data collection to deployment
- Increased client satisfaction by 65% through the development of a dashboard that monitors IoT device availability, enhancing transparency and reliability.
- 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 2024

Universidad de Buenos Aires

Buenos Aires, Argentina

- Machine Learning (Introductory course): Covered mathematical and computational foundations.
- Blockchain Project: Developed simplified crypto coins using C++.
- Fourier Analysis Project: Developed voice-frequency band detection software using Matlab.
- Mobile robots course: Paradigm of control mobile robots, bayesians filters, SLAM and trajectory planning. We applied the algorithms to a robot during the final stage of the course

PERSONAL PROJECTS

Conversational Chatbot

Jul 2024 – Present

NLP Project

Python, LangChain, LlamaIndex, DeepLake

- Increased chatbot engagement by 25% 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 and communicational skills