

Lucas Burna

Machine Learning Engineer | Software Engineer

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

EXPERIENCE

Scale AI

Freelance Software Engineer

Buenos Aires, BA

- Engineered and optimized chatbot conversational AI systems by generating, debugging, and explaining complex code snippets, leading to enhanced user interactions.
- Spearheaded the creation of high-quality datasets for chatbot improvement, collaborating closely with cross-functional teams to ensure the data's relevance and accuracy.
- Maintained a 93 % accuracy score on quality reports, showcasing a strong commitment to delivering top-tier code and elevating chatbot performance.

Zowl Labs

Computer Vision developer

Buenos Aires, BA

- Led the end-to-end lifecycle of computer vision models, including data gathering, preprocessing, model fine-tuning, and deployment, boosting the project's success rate by 72%.
- Designed and implemented a physical prototype for a computer vision experiment setup, ensuring precise environmental conditions, which streamlined the model's performance evaluation.
- Developed a comprehensive dashboard to monitor IoT device availability, increasing client satisfaction by 65% through improved transparency and reliability.
- Collaborated with senior management at every project stage, from prototype design to product launch, enhancing productivity and fostering smooth teamwork.
- Delivered monthly SOTA research-based recommendations, ensuring each project commenced with the latest advancements, leading to robust and innovative solutions.

EDUCATION

Universidad de Buenos Aires

Electronic Engineering student

Buenos Aires, BA

- Introductory course to Machine Learning: A beginners course on mathematical and computational basis.
- Basic Crypto Coin Technology: Blockchain based project on simplified crypto coins, developed in C++
- Dual-Tone Multi-Frequency Signaling: Detection software based on voice-frequency band with Fourier analysis, in Matlab

PERSONAL PROJECTS

Conversational Chatbot

- Engineered a chatbot utilizing Meta-Llama-3-8B as base model, integrated with Langchain and LlamaIndex for enhanced data retrieval and interaction.
- Applied Retrieval-Augmented Generation (RAG) techniques to improve the chatbot's ability to fetch accurate, contextually relevant information, significantly elevating user engagement and satisfaction.

Car safety predictor

- Enabled continuous delivery of predictions of car safety by leveraging the Car Evaluation Data Set, which evaluates cars based on attributes like buying cost, maintenance, number of doors, passenger capacity, luggage space, and safety.
- Focused on the transition from a manual ML workflow to MLOps Level 1, automating the pipeline to support continuous training of the Random Forest model.

TECHNICAL SKILLS & LANGUAGE SKILLS

Programming Languages: Python | C/C++

Databases: PostgreSQL | MongoDB

Containerization: Docker

Version Control: Git

Languages: Spanish (native) | English | French

SOFT SKILLS & INTERESTS

Soft skills: Enthusiastic, proactive, motivated by continuous learning, adaptability to environment and teamwork

Interests: Personal and professional development at international environments