Lucas Burna

Machine Learning Engineer | Software Engineer

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EXPERIENCE

Scale AI

Freelance Software Engineer   *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%.

- Maintained a 93% accuracy score on quality reports, consistently delivering high-quality code and ensuring top-tier performance.

Zowl Labs

Computer Vision developer   *Buenos Aires, BA*

- Boosted project success rate by 72% by leading the full lifecycle development of computer vision models, from data gathering 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

Universidad de Buenos Aires - Electronic Engineering

Relevant Coursework   *Buenos Aires, BA*

- * 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.

PERSONAL PROJECTS

Conversational Chatbot

- * Increased chatbot engagement by 25% 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.

Car safety predictor

- * Automated the model training pipeline for continuous predictions of car safety using the Car Evaluation Data Set, advancing from manual ML workflows to MLOps Level 1.
- * Developed a Random Forest model to evaluate car safety based on key attributes, improving decision-making for safety-related issues.

TECHNICAL SKILLS & LANGUAGE SKILLS

Programming Languages: Python | C/C++
Databases: PostgreSQL | MongoDB
Containerization: Docker
Version Control: Git
Languages: Spanish (native) | English | French

SOFT SKILLS

- · Strong problem-solving and critical thinking
- · Effective cross-functional collaboration
- · Continuous learning and adaptability in dynamic environments