Lucas Carmusciano

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Education

Universidad de Palermo — Buenos Aires, Arg.
B.Eng. in Artificial Intelligence Engineering, GPA: 8.44 — Expected Graduation: December 2026
Research project: Bladder cancer detection using AI (Aug 2025 – Present)

UNICEN – Universidad Nacional del Centro de la Provincia de Buenos Aires — Tandil, Arg.
Technical Degree in Application Development, GPA: 8.5 — March 2022 – July 2024
Professional internship: Computer vision project for food composition analysis.
Funded by Fundación Sadosky and conducted with ISISTAN and IAM.

Experience

VirtualSense — Remote
AI Developer — Sep 2024 – Jul 2025
- Developed medical chatbot using LLMs (LLaMA, DeepSeek) and RAGs for specialized document-based QA.
- Applied NLP and fine-tuned evaluation pipelines to reduce hallucinations and prevent unsafe responses.
- Integrated LlamaIndex and deployed Docker containers on RunPod serverless infrastructure.

Fundación Sadosky / ISISTAN / IAM — Tandil, Buenos Aires
AI Research Intern — Feb 2024 – Nov 2024
- Built a food image analysis tool estimating macronutrients using vision-LMMs and prompt engineering.
- Benchmarked open-source and commercial solutions like Foodvisor to evaluate model performance.

UNICEN — Tandil, Buenos Aires
Teaching Assistant, Programming II — Jul 2023 – Dec 2023
- Assisted in teaching object-oriented programming with Java.

Projects

- GymTracker: Computer vision-based feedback tool for squat form assessment. Used YOLO for barbell detection and MediaPipe for joint angle analysis.
  GitHub: https://github.com/lucascarmu/MONAI_DeepMedVision
- BTC Price Predictor: Trained LSTM-based model using TensorFlow to forecast Bitcoin prices. Automated updates with GitHub Actions.
  GitHub: https://github.com/lucascarmu/BTC-Price-Predict

Skills

Technical: Python, R, Java, C++, SQL, NoSQL, FastAPI, Flask, Spring Boot, Docker, Git, Jira, Power BI, Linux.
AI/ML: TensorFlow, PyTorch, Fine-Tuning, Scikit-learn, LLMs, RAGs, Computer Vision, NLP, Time Series, Data Mining.
Tools: LlamaIndex, Docker, RunPod, MediaPipe.
Languages: Spanish (native), English (intermediate).