

LUIZ FELIPE DINIZ COSTA

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EXPERIENCE

Undergrad Researcher, Machine Learning for Road Safety (AVADiP - USP)

Aug 2024 – Present

- Led dataset curation and annotation in CVAT with standardized VRU guidelines and consistency checks across annotators.
- Built pipelines to export labels to YOLO format, generate balanced splits, and version configs and logs for reproducibility.
- Fine-tuned YOLOv11 on consortium data, iterating hyperparameters and training strategies to improve detection quality.
- Planned and executed experiments to analyze model robustness under varied conditions and reduce failure modes.
- Automated metric reporting (mAP, precision, recall) with visual analyses to speed up feedback and decision making.
- Managed remote training via SSH and virtual environments, optimized GPU use, and packaged checkpoints for deployment.
- Consolidated findings and recommendations with visuals for the official technical report and upcoming evaluation phases.

DATA ICMC/USP

Jan 2024 – Present

Education, Development, Impact

- Co-organized the full *Python for Data Science* course covering Python fundamentals, functions and OOP, NumPy, Pandas, Matplotlib, preprocessing, scikit-learn, web scraping, and a capstone; created hands-on exercises and mentored 2000+ registrants.
- Co-organized the *Machine Learning* course and taught a lecture on CNNs, covering fundamentals and a practical YOLO example.
- Led the website rebuild with React and TypeScript, improving accessibility, SEO, and automated deploy workflows.
- Drove a rebranding effort; coordinated a small design team and doubled social media followers.
- Built and maintained the Learning on Graphs Conference 2025 registration platform handling 900+ submissions with real-time confirmation and multilingual support.

Google Developer Group, Campus Party Brazil 2024

Jan 2024

Dev Stage Volunteer

Coordinated live tech talks and ensured smooth speaker and broadcast transitions.

SEMCOMP, Computer Science Week at USP

Jan 2024 – Present

Software Engineer and Hackathon Support

- Helped organize SEMCOMP, the largest CS week in Latin America, contributing to the 2024 edition.
- Developed the official website as a fullstack dev using TypeScript and MongoDB with a focus on performance and usability under live traffic.
- Worked with Git feature branches, pull requests, and CI/CD integration.
- Co-organized the official hackathon; wrote the rulebook, built the challenge system, and provided real-time technical support.

AWARDS

1st Place, RAI (Artificial Intelligence Advancement Network) by Monks Hackathon 2025

Sep 2025

AI for Information Quality: Understanding, Awareness and Trust in the Digital World

- Built a multimodal WhatsApp bot classifying claims as True, False, Misleading, or Unverifiable with rationale and citations.
- Implemented an end to end pipeline integrating LLMs, WhatsApp API, and Google Fact Check APIs for text, links, images, and audio.
- Delivered a working demo in 12 hours with a cross functional team; owned backend integration, prompt design, and reliability checks.

EDUCATION

B.Sc. in Computer Science, University of Sao Paulo (USP)

Mar 2022 – Dec 2026 (expected)

Key Courses: Data Structures, Algorithms, Distributed Systems, Operating Systems, Statistics

Technical Degree in Systems Development, ETEC Prof. Camargo Aranha

Mar 2019 – Dec 2021