Pau Jorques Brisach

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Summary

AI Engineer passionate about research, open-source and applied machine learning. I bring hands-on experience developing and evaluating real-world AI systems—ranging from optimization and OCR to image classification and generative agents. I thrive in collaborative environments, love solving tough problems. I am proficient in Python, experienced with PyTorch, TensorFlow, LangChain and cloud platforms (GCP, AWS), and driven to advance accessible, high-performance AI.

Professional Experience

ML Engineer Internship

Typsa Digital Solutions — Valencia, Spain Jan 2025 – Present

- Designed a cleaning optimization algorithm using genetic heuristics, boosting efficiency by 10% and cutting annual costs by €100,000.
- Built and deployed OCR models for legal documents using AWS Textract, reducing processing times from 2 days to 2 hours.
- Co-developed a construction project forecasting tool, debugging and rearchitecting for performance on traditional infrastructure.
- Created internal-facing chatbots to enhance user interactions and streamline access to company resources.
- Used AWS (EC2, S3, Textract) and GCP (Compute Engine, Cloud Storage); gained experience operating in hybrid cloud/on-prem setups.

Education

Master in Artificial Intelligence

EDEM Escuela de Empresarios, Valencia 2024 – 2025

BSc in Mathematics and Computer Science

Universitat Jaume I (UJI), Castellón 2020 – 2025

Certifications

- Google Cloud Certified - Cloud Digital Leader
- LangChain Academy: Introduction to LangChain
- Hugging Face: Agent Course
- DeepLearning.ai: ChatGPT Prompt Engineering for Developers
- FreeCodeCamp: Machine Learning with Python

Technical Skills

Python, **PyTorch**, **TensorFlow**, **LangChain**, **GCP**, **AWS**, **Docker**, **Kubernetes**, **Terraform**, **SQL/NoSQL**, **CI/CD**, **Linux**, **C++**, **Java**, **Bash**

Projects

- **Personalized Diet Agent (Master's):** Built an AI agent using LangChain and GCP to suggest diets from real supermarket data. Focused on usability, modularity and cloud readiness.
- **Bridge Defect Detection:** Developed a PyTorch-based image classifier to detect structural issues in bridges. Evaluated performance for possible real-world deployment.
- **Salary Prediction App:** Created a salary prediction app using TensorFlow, Streamlit, and Pandas. Emphasis on generalization, MAE $\approx$ \$2000.

Languages

- Spanish: Native
- Valencian: Native
- English: Professional