

Valentin DE MATOS

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[Website](#)

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Education

EPITECH – B.Sc
Programme Grande École

Skills

Python / C++ / Golang
PyTorch / Jax / Tensorflow
LLM / SST / NLP / RL
Training / Fine-Tuning
MLOps

Projects

SMIT: Tool automatically bringing the audio modality to any existing LLM.

CS Café: Hosting the CS News podcast where experts are interviewed to share their expertise.

StockLLM: Fine-tuned Mistral-7B on a homemade chess dataset for knowledge enhancement.

OpenAdv: Replicating and exploring the latest adversarial techniques within AI research.

Serenity: Classify user brain activity using Deep Learning techniques applied to EEG data.

SmartShark: An Intrusion Detection System Based on Machine Learning.

Open-Zero: Reproducing various RL algorithm made by DeepMind.

Experience

Gladia – Lead AI Engineer | 2022–present

Speech-to-Text Startup

Joined as the first engineer in the company, and was originally responsible for developing the early POCs and products.

As Gladia pivoted to speech-to-text, I was central in the core product's development as the company went from 0 to \$1M+ in ARR.

Optimized the inner working of the proprietary ASR model resulting in the world's fastest STT solution of top-tier accuracy.

Designed and developed the inference architecture enabling the deployment of the solution across dozens of GPUs.

Managed the development of the diarization product while overseeing the work of one AI engineer.

Blackfoot – AI Researcher | 2021

Research & Innovation Lab

Researched and developed Deep Learning models for analyzing mammal health through IMU data, resulting in a tailored AI algorithm optimized for resource-constrained devices.

Orchestrated research experiments, curated datasets, engineered a robust data cleaning pipeline and developed the AI model resulting in the creation of the first POC of the product.

POC SERVICES – President | 2021 – 2022

Deep-Tech Services Company

Led a team of 40 students to drive business growth while managing inbound and outbound sales calls.

Designed and implemented internal sales processes, oversaw the expansion of the Junior Enterprise, and secured initial contracts, resulting in €30k revenue by the end of the service period.

Kiln – Software Engineer | 2020

DeFi Staking-as-a-Service

Developed a Tezos blockchain transpiler, securing grant funding for implementation, and engineered the internal billing algorithm to streamline financial processes.

POC INNOVATION – Head of AI | 2020

Non-Profit AI Research Lab

Led non-commercial AI research, yielding over 20 AI projects in total.

Organized and led national AI events, collaborating with prestigious entities like the NASA International Space Apps Challenge to foster industry engagement and knowledge exchange. Additionally, orchestrated national AI training across multiple schools, including 42 and EPITECH.