Daniele Mingolla

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WORK EXPERIENCE

OPENNEBULA   MARCH 2025 — PRESENT
Senior AI Engineer   *Barcelona, ES*
- Architected the OpenNebula MCP server from scratch, cutting cloud management time by **40%** by enabling customers to operate infrastructure using **natural language**.
- Reduced cloud operational costs by **15%** by developing a **predictive system** that **automatically adjusted** VM resources, eliminating over-provisioning.
- Ensured the system could **automatically scale** without failure by building a **"crash test" simulation** to validate the AI's decisions, preventing an estimated **99.8%** of production errors.
- Pioneered the architecture for the GenAI4EU project, a **multi-agent AI system** that autonomously manages complex cloud infrastructure, projected to **reduce incident resolution time by 75%**.

GLOVO   MARCH 2024 — MARCH 2025
Machine Learning Engineer   *Barcelona, ES*
- Designed and analyzed **A/B tests** across multiple domains (UX, email, promos), collaborating with PMs and SWEs on experiment design, implementation, and **statistical analysis**.
- Built and deployed **ML recommendation system** for in-app ranking and personalized communications (email/push), orchestrating implementation across teams with projected **€4M annual GMV impact**.
- Validated EU discount policy impact through **causal inference**, proving **fraud reduction (99.6%)** without business degradation, enabling policy rollout across operating markets.

SOCIALPOINT   JANUARY 2023 — MARCH 2024
Machine Learning Engineer   *Barcelona, ES*
- Analyzed arena mode matchmaking data to identify engagement bottlenecks, driving game design improvements that **increased ARPU by 5%**.
- Developed **genetic algorithm** for game balancing automation, **reducing game designers' manual workload by 70%** while preserving gameplay quality.
- Architected **ETL pipeline** for **real-time game metrics**, automating performance tracking and stakeholder reporting across teams.

AMAZON   JULY 2022 — NOVEMBER 2022
Data Engineer Intern   *Luxembourg, LU*
- Optimized **Spark job performance** through code refactoring and resource optimization, **reducing AWS costs by 20%**.
- Developed **ETL pipelines in SQL** to power **QuickSight dashboards**, enabling **data-driven operations** across warehousing teams.
- Collaborated with Research Scientists on **temporal graph neural networks** to model warehouse dependencies for improved order forecasting across **1,000+ facilities**.

EDUCATION

MSc IN DATA SCIENCE, University of Milano-Bicocca, Milan, IT   OCTOBER 2020 — OCTOBER 2022
- Thesis: Federated and Distributed Machine Learning Models for Load Prediction at the Edge.

BSc IN COMPUTER SCIENCE, University of Perugia, Perugia, IT   OCTOBER 2017 — JULY 2020
- Thesis: Application of Machine Learning and Deep Learning Models for Sentiment Analysis on Hotel Reviews.

PROJECTS

OPENNEBULA MCP SERVER
- **Architected and developed** an **LLM-provider agnostic** server from scratch that enables **natural language cloud management** via **10+ MCP tools**, validating cross-provider compatibility (OpenAI, Anthropic) with **Promptfoo** tests.

TECHPUENTE
- Built a SaaS platform from scratch connecting South American tech talent with European companies, achieving a **92% candidate success rate** and **45-day placement time** via an **AI-powered matching engine**.

SKILLS

Programming & Modeling	Python, R, JavaScript, SQL	Machine Learning, Deep Learning, Causal Inference	PyTorch, Scikit-Learn, LangChain
MLOps & Data Engineering	AWS, Apache Spark, RabbitMQ, Airflow, Docker, FastAPI, MLFlow, Redis