



Davide Perini Toro

AI ENGINEER / ML ENGINEER

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Profile

Master's in Applied Mathematics with 4+ years of proven hands-on experience designing and delivering production-ready ML and AI solutions for industrial and business challenges.

Track record in AI Engineering, deploying NLP pipelines, RAGs and agentic applications.

Proven experience in architecting end-to-end ML workflows, from data ingestion and feature engineering to deployment and maintenance.

Inspiring team leader and mentor, with experience in coordinating cross-functional teams and engaging stakeholders in dynamic, multi-project environments to drive innovation and impact.

Employment History

ML & AI Lead Engineer, SBE - VARVIT, Monfalcone

January 2024 — Present

- **LLM engineering:** research, **prompt engineering**, tuning, evaluation, **quantization** and **fine tuning** of **proprietary** and **open LLM**.
- **AI Engineering:** deployment **NLP pipelines** such as **RAG**, **agentic** applications, voice-to-text, summarization, translation, document search, text-to-code.
- **Full-stack developing:** **RESTful APIs** and microservices development and deployment with **Python**, UX/UI developing with **Javascript** (Svelte and Angular).
- **Cloud services** manager: **GCP**, **AWS** and **OVH**.
- **Architecture** engineering: development, deployment and maintenance of our products via CI/CD pipelines, **Docker** containerization and **Kubernetes**.
- **Team leading** and **project management:** coordination, training and mentoring of other team members, project ownership, team building, reporting, stakeholder involvement, external consultants coordination.
- **Python** libraries and frameworks: **PyTorch**, **Transformers**, **Hugging Face**, **Pandas**, **Flask**, **Scikit-learn**, **Langchain**, **LangGraph**, **SpaCy**, **Gradio**, **Tensorflow**, **OpenCV**.
- **CI/CD tools** and frameworks: **ArgoCD**, **Git**, **GitHub**, **Docker**, **Kubernetes** and **Jira**.
- **Databases:** **PostgreSQL**, **ElasticSearch**, **ChromaDB**, **MongoDB**.
- **Experimentation** with new technologies and frameworks: **Vertex AI**, **OpenAI** models, **Meta**, **Grok**, **Manus**, **Anthropic**, **Alibaba (Qwen)**, **DeepSeek**, **Midjourney**.

Freelance AI & Innovation business consultant, Verona

January 2023 — Present

- Consulting services provided to companies across multiple sectors, to help stakeholders take the right decision in their first steps adopting AI.
- During this experience I helped company from a diverse set of industrial sectors: Logistics and Transportation, Human Resources, Manufacturing, Marketing and Communication

Details

Nationality

Italiana

Date / Place of birth

20/01/1996

Quito, Ecuador

Skills

LLMs evaluation, fine tuning, quantization

Designing NLP pipelines and agentic applications

Designing production-ready ML systems

Software engineering (Python)

Application deployment, versioning and CI/CD

Cloud services management (GCP, AWS, OVH)

Team Leading & Project Management

Business Analysis

Mentoring and tutoring

Private consulting

Languages

Italian

English

Spanish

Data Scientist, HPA, Trento

September 2021 — January 2024

- **Machine Learning** engineering: **Data analysis**, **feature engineering**, metrics evaluation and development, **model development**, **training**, **testing** and evaluation.
- **AI Engineering**: **prompt engineering**, development and deployment of **NLP pipelines** for **RAG** and **classification**.
- **Business Analysis**: stakeholders involvement, requirements collection, definition of objectives, elicitation, reporting, task evaluation. (ECBA certification was work-in-progress)
- **Team leading** and **project management**: task management, team coordination, reporting, client management, deliverable production.
- **Python** libraries and frameworks: **Pandas**, **NumPy**, **lightGBM**, **Scikit-learn**, **NLTK**, **OpenCV**, **Tensorflow**, **SpaCy**, **SciPy**, **Matplotlib**, **Seaborn**, **Flask**, **Hugging Face**, **Polar**.
- Software engineering: relational databases (**MySQL**), **NoSQL** databases, design patterns, **TDD**, **BDD**, product deployment, versioning, best practices.

Freelance tutoring for Math, Physics and Computer Science, Verona

April 2016 — December 2023

- Math and physics tutoring for 20+ students from middle school, high school, technical and professional institutes and bachelor students.
- I tutored bachelor students for **calculus**, **linear algebra**, **geometry**, **probability**, **statistics**, computer science, etc.
- I obtained very high students' satisfaction, proved by their accomplishments and improvements with their involvement, motivation and commitment.

Education

Master course in Mathematics, Università degli Studi di Verona, Verona

2018 — 2023

Mathematics applied to Machine Learning and Data Science.

Thesis title: Twitter bot identification via CNNs-based image recognition

Final degree mark: 105/110

Bachelor Course in Applied Mathematics, Università degli Studi di Verona, Verona

2015 — 2018

Mathematics applied to numerical modeling for life sciences.

Thesis title: A ri-derivation of the Gauss linking number.

Final degree mark: 103/110

IT Expert, ITIS G. Marconi, Verona

2010 — 2015

Vocational High School for IT.

Secondary school diploma.

School-leaving examination mark: 94/100

Courses

Advanced Topics in Financial Engineering, ARPM

2021

ECBA (not completed), IIBA

2023

AI Week, Rimini

2024

Attented as partecipant and SBE representative.

Future Grid Day IKN, Milano

2022

Speaker as HPA & Terranova representative: Predictive workforce management.