

# Felice Schena

## AI & Analytics Engineer

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### SUMMARY

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Machine-learning engineer with a DevOps background. Currently working as an AI & Analytics engineer at Tetra Pak, where I research ways to adapt vision-language models for industrial quality control and build the analytics around them.

### EXPERIENCE

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#### AI & Analytics Engineer

Feb 2025 – present

Tetra Pak – Modena, Italy

- Building on the vision-language model research started during the internship, moving it towards production use in quality control.
- Designing and maintaining analytics for the Development & Technology department.

#### Artificial Intelligence Intern

Aug 2024 – Jan 2025

Tetra Pak – Modena, Italy

- Researched and implemented state-of-the-art vision-language models (CLIP, SigLIP) and adapted them to Tetra Pak's quality-control use case.
- Manually annotated a dataset of ~1,000 image-text pairs and fine-tuned models with transfer-learning techniques.
- Presented findings and recommendations to the team; the proposed approach was considered for future projects.

### EDUCATION

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#### MSc, Computer Science – Artificial Intelligence

2022 – Apr 2025

University of Modena and Reggio Emilia – Modena, Italy

Thesis: Fine-tuning Vision-Language Models for Domain-Specific Image Retrieval with Small-scale Datasets.

#### BSc, Computer Science

2017 – 2021

University of Modena and Reggio Emilia – Modena, Italy

Thesis: Variable Neighborhood Search – optimal placement of microservices in fog architectures.

### CERTIFICATIONS & COURSES

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#### AWS Solution Architect

Oct 2021

Tree srl

Course on designing scalable, highly available and fault-tolerant systems on AWS, with a focus on cost constraints and Quality of Service.

### SKILLS

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- **Coding:** Python, C, C++, Java
- **ML / Data:** PyTorch, Hugging Face, Pandas, NumPy, Scikit-Learn, Plotly, Streamlit
- **AI:** VLMs, LLMs, RAG, MoE, Fine-tuning
- **Databases:** PostgreSQL, MySQL, SQLite, Weaviate, PGVector
- **DevOps:** Docker, Kubernetes, CI/CD pipelines, AWS
- **Languages:** Italian (native), English

### PUBLICATIONS

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*Placement of IoT Microservices in Fog Computing Systems: A Comparison of Heuristics – Algorithms* (MDPI), open access, 2021. [mdpi.com/2478364](https://doi.org/10.3390/2478364)