

KLAJVERT TARKO

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EDUCATION

Master's Degree in Artificial Intelligence, Università degli Studi di Perugia Expected November 2026

Thesis: *Transformer and RetNet Architectures for Natural Language Processing and Computer Vision*

Research interests: Transformer architectures, multimodal models, and Agentic AI systems.

Relevant Coursework: Applied Machine Learning, Deep Learning for Production, NLP, Computer Vision, Data Engineering & Big Data, Cloud Computing & MLOps.

Bachelor's Degree in Computer Science, Università degli Studi di Perugia

2016 – 2020

SKILLS

Programming	Python, SQL, Java, C#, R, Go
Machine Learning	Deep Learning, NLP, Computer Vision (CNN/Transformers), Time Series (RNN/LSTM), XGBoost, Model Evaluation & Optimization
ML Tools	PyTorch, scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Jupyter
MLOps / Cloud	Git, Linux, Docker, AWS, Oracle Cloud
Backend / Data	REST APIs, PHP, Laravel, PostgreSQL, MySQL
Languages	Albanian (native), Italian (fluent), English (fluent), Greek (intermediate)

EXPERIENCE

Software Developer Oct 2024 – Present

Fibraweb S.p.A. (*Telecommunications*)

Perugia, IT

- Develop and maintain internal software tools and SQL-based data pipelines supporting enterprise business connectivity services.
- Design and optimize operational reporting dashboards, improving reliability and performance for key clients.
- Implemented priority-based background job processing using Laravel queue workers, improving task throughput and system reliability.
- Collaborate with cross-functional stakeholders to translate business requirements into technical solutions and automation.

Freelance Machine Learning Developer

Oct 2022 – Present

Self-employed

Perugia, IT

- Build end-to-end ML and NLP pipelines in Python, covering data preprocessing, feature engineering, model training, and evaluation.
- Develop and compare models for time series forecasting, classification, and regression across multiple domains.

CERTIFICATIONS

DataCamp AI Engineer for Data Scientists Associate	<i>Jun 2026</i>
DataCamp AI Engineer for Developers Associate	<i>May 2026</i>
Microsoft GitHub Copilot	<i>Jun 2026</i>
AWS Certified AI Practitioner	<i>Sep 2025</i>
Oracle Cloud Infrastructure 2025 Generative AI Professional	<i>Oct 2025</i>
Oracle AI Vector Search Certified Professional	<i>Sep 2025</i>
Oracle Fusion AI Agent Studio Foundations Associate	<i>Aug 2025</i>
Oracle Cloud Infrastructure 2025 AI Foundations Associate	<i>Aug 2025</i>

PROJECTS

Master's Thesis (In Progress): Transformer and RetNet for NLP & Computer Vision. Researching efficiency-vs-performance trade-offs between Transformer and RetNet architectures, with a focus on transfer learning to smaller models under limited compute. Broader interests include multimodal models and Agentic AI systems.

Tesla Stock Prediction (LSTM Time Series). Built an LSTM neural network to forecast Tesla stock prices, with analysis of COVID-19's impact on model behavior. Full pipeline in Python: preprocessing, architecture design, training, and evaluation. [\[Demo\]](#)

Wine Quality Prediction (Tabular ML). Predicted wine quality from physicochemical features using tree-based models and XGBoost. Applied full EDA, feature importance analysis, and model comparison with scikit-learn and Matplotlib.

ADDITIONAL

Erasmus+ exchange at Adam Mickiewicz University (Poznań, Poland) twice: Bachelor's (2018–2019) and Master's (2021–2022). Strong interest in football tactical analysis; conducted applied set-piece analysis for a semi-professional team.