Adele Pia Romano

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Experience

Machine Learning Engineer

Tutzing, Germany Febr 2023 - Ongoing

Knowlix GmbH

- Designed and deployed end-to-end ML pipelines for real-world applications.
- o Fine-tuned Visual Language Models and Large Language Models (LLMs).
- Deployed deep learning models on edge devices, optimizing latency and memory usage
- o Implemented serverless inference endpoints for LLMs
- Conducted prompt engineering and data analysis for model fine-tuning
- Monitored and troubleshot ML systems using alert systems and logging tools

Research Fellow

Rende, Italy

University of Calabria

May 2022 - Dec 2022

- o Implemented and trained Generative Adversarial Networks (GANs) for spectrogram generation
- $\circ\,$ Integrated Vision Transformer models in GAN architectures for image generation

Education

MS in Artificial Intelligence and Machine Learning

Sept 2019 - Apr 2022

University of Calabria

 \circ Score: 110/110 cum Laude

o Thesis: "Audio Super-resolution via Vision Transformer"

BS in Computer Engineer

Sept 2016 - Sept 2019

University of Calabria
• Score: 106/110

• Thesis: "A classification algorithm for gene expression data based on individual networks"

Publications

Audio super-resolution via vision transformer

Dec 2023

Simona Nisticò, Luigi Palopoli, Adele Pia Romano - 10.1007/s10844-023-00833-w

Skills

Machine Learning & AI:

- Model Architectures: Transformers, CNNs, RNNs, GANs.
- ML Frameworks: Pytorch, TensorFlow, Keras.
- Libraries & Tools: TorchVision, NLTK, CoreML, ONNX, LangChain, FastAPI, vLLM, Numpy, Scikit-Learn, pandas, SciPy, PIL, OpenCV, librosa, Matplotlib, Seaborn, Weights & Biases.
- CI/CD Pipelines: Automating ML model training, testing, and deployment.
- Serverless & Edge AI: Deploying models on edge devices with optimized resource usage.
- Cloud Services: AWS, Microsoft Azure.

Software Development:

- o Programming Languages: Python, Java, Swift, C, Javascript, Assembly.
- Databases: SQL: MySQL, PostgreSQL. No SQL: DynamoDB, MongoDB.
- Version Control and Collaboration Tools: Git, Github, Bitbucket, JIRA, Confluence.
- o Operating Systems: Linux, MacOS, Windows.