

# Adele Pia Romano

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## Experience

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**Machine Learning Engineer**  
*Knowlix GmbH*

*Tutzing, Germany*  
*Febr 2023 – Ongoing*

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

**Research Fellow**  
*University of Calabria*

*Rende, Italy*  
*May 2022 – Dec 2022*

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

## Education

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**University of Calabria**  
*MS in Artificial Intelligence and Machine Learning*

*Sept 2019 – Apr 2022*

- Score: 110/110 cum Laude
- Thesis: "Audio Super-resolution via Vision Transformer"


**University of Calabria**  
*BS in Computer Engineer*

*Sept 2016 – Sept 2019*

- Score: 106/110
- Thesis: "A classification algorithm for gene expression data based on individual networks"

## Publications

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**Audio super-resolution via vision transformer**  
Simona Nisticò, Luigi Palopoli, **Adele Pia Romano**  
[10.1007/s10844-023-00833-w](https://doi.org/10.1007/s10844-023-00833-w) 

Dec 2023

## Skills

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### Machine and Deep Learning:

- Architectures: Transformers, CNNs, RNNs, GANs.
- Frameworks: Pytorch, TensorFlow, Keras.
- Libraries: TorchVision, NLTK, CoreML, Numpy, Scikit-Learn, pandas, SciPy, PIL, OpenCV, librosa, Matplotlib, Seaborn.
- Experience developing ML models for image, text, audio, and tabular data.
- Expertise in ML model optimization (latency, memory, throughput).

**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.

**Cloud Platforms:** AWS, Microsoft, Azure.

**Operating Systems:** Linux, MacOS, Windows.