

Antonio Roberto, PhD

ML Researcher | Applied Scientist

As an Applied Scientist, I've developed AI algorithms for various applications, published 11 scientific articles, and collaborated with leading institutions. Passionate about generative AI, I constantly keep myself up to date with new methodologies and technologies in the field.

WORK EXPERIENCE

Applied Scientist

Sep 2024 – Present

Amazon, Turin, IT

- Design and development of Natural Language Processing algorithms for Amazon Alexa devices.

Machine Learning Researcher

Feb 2023 – Sep 2024

Huawei Ireland Research Center, Dublin, IE

- Design and development of AI algorithms for anomaly detection in networking time series data. Improvement of 20% of the performance.
- Collaboration with customers to develop Networking Monitoring Standards (IETF).

Applied Scientist Internship

Jun 2022 – Sep 2022

Amazon Alexa, Turin, IT

- Design and development of innovative speech recognition (ASR) algorithms for the Alexa platform, working over massive data sets (using Amazon SageMaker).

RESEARCH EXPERIENCE

Visiting Researcher

Jul 2021 – Oct 2021

Ecole Nationale Supérieure d'Ingenieurs de Caen, CAEN, FR

- Working on the research project: "Speech analysis for Speaker Identification and Soft-Biometrics recognition based on Deep Learning methods".

EDUCATION

Ph.D. in Computer Engineering

Dec 2019 – Dec 2022

University of Salerno, Salerno, IT

- Research in machine learning algorithms for Audio and Speech Analysis, Conversational AI with Large Language Models (LLMs), and Deep Learning models optimization for Embedded Systems.
- Publication of 9 articles to international conferences and Q1 journals.
- Leading of small (2/3) teams of students

MSc in Computer Engineering

Oct 2016 – Dec 2018

University of Salerno, Salerno, IT - Grade 110/110 cum laude

- International thesis entitled "A method for forecasting financial time series based on empirical mode decomposition and manifold learning".

CONTACT

- Turin, IT (Open to relocate)
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- github.com/robertanto

SKILLS

Soft skills:

- Teamwork and Leadership
- Earn trust, Attention to details
- Curiosity, Creativity
- Quick Learning
- Innovation maker

Hard skills:

- Generative AI
- Time Series Analysis
- Knowledge Graph Analysis
- Artificial Intelligence
- Deep Learning
- Data Mining
- Speech Processing
- Natural Language Processing
- Software Engineering

Languages, Tools and Frameworks:

- Python, Java, C, MATLAB
- SQL, Cypher
- Tensorflow, Keras, PyTorch
- ONNX, Tensor RT
- HuggingFace, Transformers
- LangChain
- Apache Spark, Apache Airflow
- NumPy, Scikit-Learn, Scipy, Pandas
- Linux
- Docker, Kubernetes
- AWS, Google Cloud Platform

LANGUAGES

Italian
English (Professional)

OTHER

- Saxophonist in a Blues band
- Cultural Associationist