



# CRISTIAN LUNGU

Cluj-Napoca, Romania, EU

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## SUMMARY

Educating students and professionals @ [#curs-ml.com](https://www.curs-ml.com) / [#trainer](#).  
Working on projects in [#healthcare](#) [#law](#) and [#adtech](#) through [#deep-learning](#) and [#llm](#).  
Research Engineer in [#nlp](#) and [#few-shot-learning](#) problems.  
Built high-frequency compliance engine for a Tokyo HFT hedge fund ([#fintech](#)).  
Research Lead for top [#cyber-security](#) company.

## EXPERIENCE

### CTO / Senior ML Consultant

[Xetten AI](#), Cluj-Napoca — 2019 - Present

Built deep learning models for various customers (in adtech, law, fintech or healthcare):

- Fine-tuned transformer-based large-language ([#llm](#)) models for information extraction.
- Developed a lung diseases classifier on exhaled volatile organic compounds
- Fine-tuned object classifiers for logo detections and other markers
- Demand forecasting for ad placements
- Click-through-rate predictors for ad optimisation
- Derivatives-free revenue and control flow optimisations
- Implemented RAG based systems for QA and talk-with-your-data.
- Prompt engineering for a UK law firm. Document analysis and summarization.

### Founder / Trainer

[www.curs-ml.com](https://www.curs-ml.com), Cluj-Napoca — 2019 - Present

Educating students and industry professionals on ML concepts through private and public seminars, workshops, blog posts and published video content.

Host of AI/ML meetup group "[The Future With AI](#)".

### ML Research Engineer

[ComplyAdvantage](#), London — 2016 - 2018

Developed machine-learning models on few-shot-learning problems, clustering, deduplication and information extraction in NLP (named-entity-recognition, gender detection, ethnicity detection, etc.):

- Trained a similarity network for structured data clustering (entity linkage).
- Worked on image processing and classifiers for detecting genders from segmented images.
- Built a collaborative filtering platform / recommender system as a profile search engine
- Built models for structured data clustering.

### Senior Java Developer

[LSEG TORA](#), Tokyo / Cluj-Napoca — 2011 - 2016

Dev Lead for a high-frequency compliance engine used by the LSEG (London Stock Exchange) and TSE (Tokyo Stock Exchange) trading platform.

### Antimalware ML Detection Team Lead

[BitDefender](#), Cluj-Napoca — 2007 - 2011

Developed generic detection solutions based on malicious Win32 API call patterns using machine learning.

## EDUCATION

### Technical University Cluj-Napoca

PhD.c — 2023-present

Research on gradient-free optimization and differentiable genetic operators for multi-modal functions.

### Technical University Cluj-Napoca

MsC — 2009-2011

Image processing with OpenCV for developing intelligent HCI (Human Computer Interaction) interfaces. Built a virtual mouse pointer based on gaze detection.

## SKILLS

- JAX, PyTorch, TensorFlow (Keras)
- Scikit-learn, Scipy, OpenCV
- Python, Java, C/C++, ASM

## RESEARCH PAPERS

*“Optimizing the pool test method for COVID-19 using evolutionary algorithms”* in Proceedings of 2020 IEEE 16th International Conference on Intelligent Computer Communication and Processing (ICCP)

*“Super-Resolution Generator Networks: A comparative study”* in Proceedings of 2018 IEEE 14th International Conference on Intelligent Computer Communication and Processing (ICCP)

*“Designing software locking mechanisms against reverse engineering, using artificial neural networks”* in Proceedings of 2012 IEEE 8th International Conference on Intelligent Computer Communication and Processing

*“Maximizing cleaning rate for behavior based detection”*, in Proceedings of 2011 EICAR Conference, May 2011, Krems, Austria

*“The rise of icon attacks”*, in Proceedings of 2010 AVAR Conference, November 2010, Bali, Indonesia

*“CJ-Unpack: Efficient generic runtime unpacking system”*, in Proceedings of 2010 EICAR Conference, May 2010, Paris, France