

# Lucian Istrati

## Curriculum Vitae / Resume

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### Education

- 2018–2021 **Faculty**, *University of Bucharest, Faculty of Mathematics and Computer Science*, Bucharest, Ranked 16th out of 1019 candidates in the admission contest, student in the "Performance Group", Weighted average GPA - 8.92/10.00, BSc. thesis grade - 10.00/10.00.  
Undegraduate field: Computer Science
- 2021–2023 **Master**, *University of Bucharest, Faculty of Mathematics and Computer Science*, Bucharest, M. Sc. in Data Science.  
Ranked 1st out of 44 candidates in the admission contest, Admission mark - 9.84, MSc. thesis grade - 10.00/10.00
- July 2022 **Summer School**, *Eastern European Machine Learning Summer School - EEML 2022*, University of Vilnius, Faculty of Mathematics and Informatics, Vilnius.  
Machine Learning, Explainability, Causality, Bayesian Learning and Deep Learning courses
- August 2022 **Summer School**, *Three Seas Leadership School - TSLS 2022*, SGH Warsaw School of Economics, Warsaw.  
Business, Marketing, Fundraising, Negotiation, PR, Financing and Leadership courses

### Work experience

- **Head of Data Science and AI** at Apadua - worked in a tech procurement start-up where I led an AI and Data Science team and I was responsible of developping pipelines that analyzed natural language and tabular data in order to provide insights about services providers for our customers as well as to ease their decision-making process in choosing the best provider (March 2023 - Present)
- **CEO, Co-Founder and Machine Learning / Natural Language Processing Engineer** at Verbosity - worked on an eLearning platform customized for learning foreign languages with the help of AI, ML and NLP (May 2022 - February 2023)
- **AI Scientist I and Deliverable Lead** at Ordaos Bio - worked on drug creation ML algorithms / data pipelines; organized and lead teams of up to 4-6 developers for a couple of sprints as a Deliverable Lead (Oct 2021 - May 2022)
- **CEO, Co-Founder and Machine Learning / Backend Engineer** at DataZard (Mar 2021 - Dec 2021) - social media monitoring start-up qualified in "Innovation Labs 2021" Semifinal and accepted in the "The No Code AI Peltarion" and "Bucharest AI" accelerators
- **Machine Learning Engineer** at EmailTreeAI - worked on a Named Entity Recognition pipeline and an Information Extraction component; used NLTK, SpaCy, Flair, Torch, Tornado (Aug 2021 - Sep 2021)

- **Machine Learning Engineer** at Metaminds - worked on multiple Computer Vision projects, used OpenCV, PyTorch, Imgaug, Numpy, Matplotlib (Nov 2020 - Jul 2021)
- **Junior Machine Learning Intern** at Metaminds - worked on a Computer Vision project; used OpenCV, Keras, Numpy, Matplotlib (Oct 2020)
- **Junior Machine Learning Intern** at Romanian Intelligence Service(RIS) - worked on a Natural Language Processing project; used Keras, Pandas, Numpy, Matplotlib, Sklearn, NLTK, Blob, SpaCy, Fasttext, Flask (Jun 2020 - Sep 2020)
- **Tutor** of "Programming of Algorithms" and "Data Structures" for students in their first year of Undergraduate Studies of Computer Science at Faculty of Mathematics and Computer Science, University of Bucharest. (Oct 2019 - May 2020)

## Research experience

- First running author of a published paper entitled "**Automatic monitoring and analysis of brands using data extracted from Twitter in Romanian**". The paper has been accepted at IntelliSys 2021 Conference and will be published in the Springer series "Advances in Intelligent Systems and Computing"

## Programming languages and Technologies

Experimented	Python, Numpy, Pandas, Sklearn,	Advanced	NLTK, SpaCy, Imgaug, Fast API
	Keras, PyTorch, Django		
Average	SQL, C++, OpenCV	Begginer	R, Flask, Tornado

## Courses and Accreditations

- Completed in the Udemy Course "Complete Data Science Bootcamp" provided by 365 Careers
- Completed Udemy Course "Natural Language Processing: NLP With Transformers in Python"
- "Machine Learning Fundamentals CS302" - Machine Learning Course in Python - TelAcad. (Jul 2019 - Sep 2019)

## Contests and Competitions

- "Medical Image Multi-Label Classification - Classify medical images in a multi-label setup" Kaggle Competition - ranked 17/44 (Nov 2021 - Dec 2021)
- "Word Complexity Estimation Predict the probability of a word being complex" Kaggle Competition - ranked 13/89 (Nov 2021 - Dec 2021)
- SEMEVAL 2022 - "Multimedia Automatic Misogyny Identification" Competition - ranked 32/83 on Task B and 52/83 on Task A (Jan 2022)
- Textract NLP Hackathon - Classifying news articles in either automatically generated or written by human authors. (07.12.2019 - 08.12.2019)

## Projects and Volunteering

- **Co-organizer** of a machine learning hackathon named "Nitro Language Processing Hackathon". Chosed Named Entity Recognition for the hackathon task after performing several experiments. Scrapped several datasources in order to create a novel corpus which was then adnotated with named entities by a team of 12 students. Created the Kaggle Competition itself in which 24 teams from different universities and highschools competed (Feb 2022 - March 2022; Feb 2023 - March 2023)
- Worked on a data analysis & visualization team project based on Beverages & Breweries dataset - used several clustering and dimensionality reduction techniques
- Worked on a "WhatsApp Group Chat Data Analysis" team project involving Text Classification with Curriculum Learning methods (Dec 2021 - Jan 2022)
- Developed a Stock Price prediction series of backtested models that use Deep Learning and NLP techniques / algorithms in order to trade stocks based previous stock prices, financial reports and news analysis (Jan 2021 - May 2021)
- Developed an adapted algorithm for topic modelling that uses Sentence Embeddings in order to filter out noisy clusters (Apr 2021 - May 2021)
- Worked on a team project on "Hate Speech Author Profilling" with an ablation study comprised of several DL arhitectures (Feb 2021 - Mar 2021)
- Built a CoReference Resolution ML model where NLP features are derived from a text and fed as input to a model able to predict whether a pair of tokens is a coreference or not (May 2021)
- Worked in a Computer Vision team project for the "University of Bucharest Software Development Center" using Handwritten Recognition and Optical Character Recognition techniques with the aim to extract data from the documents highschool students send in order to participate in the Admission Contest of the Faculty of Mathematics and Computer Science, University of Bucharest. (Mar 2020 - Jun 2020)
- Human organ segmentation from images in DICOM format using Computer Vision and different Clustering Algorithms (Mar 2020)
- Binary classification of hate/non-hate tweets and topic prediction for StackOverflow Questions using Python and Machine Learning (Sep 2019)