

LEFTERIS LOUKAS

Data Scientist

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Google Scholar



WORK EXPERIENCE

Lead Data Scientist

Wappier - Gaming Revenue Optimization

- July 2022 – Present Athens, Greece
- Implemented end-to-end Machine Learning solutions for customer profiling using Scikit-learn, NumPy, Pandas, resulting in 14% retention increase
- Used Big Data tools like Apache Spark, Databricks, SQL and MongoDB and introduced best practices to developer workflows (MLOps)
- Performed ad-hoc data analysis and communicated quantitative key insights to clients including NBA 2K and Ubisoft
- Led the company's R&D in Hypothesis Testing and Causal Inference

Data Scientist

Augmenta - Precision Agriculture

- Feb 2022 – Jul 2022 Athens, Greece (On-site)
- Deployed a computer vision neural network using object-oriented programming, boosting precision by 12%
- Built an analytics dashboard of key features to improve AI interpretability

Data Scientist / NLP Project Lead

Ernst & Young AI Center of Excellence, NCSR Demokritos

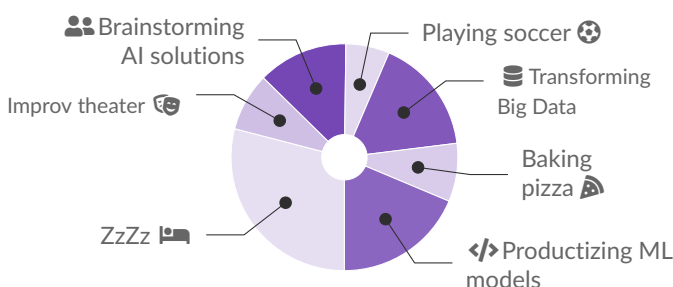
- Dec 2019 – Jan 2022 Athens, Greece
- Translated EY's business goals to ML projects and published 4 industrial R&D papers at top-tier AI conferences
- Led 4+ people and filed 1 patent on Large Language Models
- Pre-trained new BERT Transformer models for FinTech (>5k downloads)
- Presented KPIs to EY's stakeholders and non-technical audiences
- Advised by George Paliouras, Director of the AI Chapter and Ion Androutopoulos, Professor of AI (AUEB)

Software Engineer (NLP Platform)

Helvia.io - Dialogue Systems

- Jul 2017 – Nov 2019 Athens/Larisa, Greece
- Designed and implemented more than 10 AI-powered chatbots in REST APIs, including a chatbot for efood.gr, increasing sales by 15%.
- Interned for the first 2 months and worked with version control platforms (Github, Gitlab), agile delivery tools (Jira), and remote teams across countries

A DAY IN MY LIFE



SUMMARY

Experienced Data Scientist with a Master's in Electrical & Computer Engineering, passionate about end-to-end ML solutions. A detailed, product-oriented mindset coming from an applied research background, proven by 5 industrial R&D papers to top-tier NLP conferences and 1 AI patent assigned to Ernst & Young.

COMPETITIONS 🏆

- Ranked 4th in FinSim-3 (90.4% accuracy)
Led a team of 5 using data augmentation for business taxonomy prediction.

OPEN-SOURCE SOFTWARE </>

- EDGAR-CRAWLER (85+ stars on GitHub)
A toolkit to extract big data from publicly traded companies, presented at ECONLP 2021.

SKILLS

- Can-do attitude
- Data-driven
- Leadership
- Sends funny memes
- Python
- SQL
- Scikit-learn
- PySpark
- Databricks
- Airflow
- MLFlow
- Cloud
- A/B Testing
- REST APIs
- TensorFlow

TEACHING 📚

Athens University of Economics and Business
Rated 4.67 out of 5 by 50+ students.

- INF 210 – "Deep Learning for NLP (MSc)"
- INF 218 – "Databases"
- INF 259 – "Python Programming"

EDUCATION 🎓

MSc in Electrical & Computer Engineering
University of Thessaly, Volos, Greece

Sep 2014 – Jun 2019

- Published 1 paper on applied ML at IEEE, surpassing the state-of-the-art results by 23%

Management of Information Systems
NOVA Information Management School,
Lisbon, Portugal

Feb 2018 – Jun 2018

PUBLICATIONS

Applied Machine Learning Papers

1. [L. Loukas](#), M. Fergadiotis, I. Chalkidis, E. Spyropoulou, P. Malakasiotis, I. Androutsopoulos, G. Paliouras. "[FiNER: Financial Numeric Entity Recognition for XBRL Tagging](#)". *60th Annual Meeting of the Association for Computational Linguistics (ACL 2022)*.
2. [L. Loukas](#), M. Fergadiotis, I. Androutsopoulos, P. Malakasiotis. "[EDGAR-CORPUS: Billions of Tokens Make The World Go Round](#)". *3rd Economics and Natural Language Processing Workshop (ECONLP 2021 @ EMNLP)*.
3. E. Zavitsanos, K. Bougiatiotis, E. Spyropoulou, [L. Loukas](#). "[Financial Fraud Detection: A Realistic Evaluation](#)". *2nd ACM International Conference on AI in Finance (ICAIF'21)*.
4. [L. Loukas](#), K. Bougiatiotis, M. Fergadiotis, D. Mavroeidis, E. Zavitsanos. "[DICOE@FinSim-3: Financial Hypernym Detection using Augmented Terms and Distance-based Features](#)". *3rd Financial Technology and Natural Language Processing Workshop (FinNLP 2021 @ IJCAI)*.
5. [L. Loukas](#), K. Bodurri, P. Evangelopoulos, A. Bouhouras, N. Poulakis, G. Christoforidis, I. Panapakidis, K. Chatzisavvas. "[A Machine Learning Approach for NILM based on Odd Harmonic Current Vectors](#)". *8th International Conference on Modern Power Systems (MPS 2019)*.

Patents

1. [L. Loukas](#), E. Spyropoulou, P. Malakasiotis, M. Fergadiotis, I. Chalkidis, I. Androutsopoulos, G. Paliouras. "[System and method for automatically tagging documents](#)". *U.S. Patent Application US20230028664*, July 26, 2022.
2. [L. Loukas](#), E. Spyropoulou, P. Malakasiotis, M. Fergadiotis, I. Chalkidis, I. Androutsopoulos, G. Paliouras. "[System and method for automatically tagging documents](#)". *European Patent Office Application EP4124988A1*, July 26, 2021.

VOLUNTARY WORK

- [Open-Source Contributor to NumPy \(22k stars on GitHub\)](#)
- [Weekly Reading Groups @ Natural Language Processing Group, AUEB](#)
- [Mentor @ Natural Language Processing Specialization, Coursera](#)

LANGUAGES

English
Greek
German

