Fergadiotis Manos
NLP Researcher / Data Scientist

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PROFESSIONAL EXPERIENCE

Senior Machine Learning Engineer   **Workable**   2022 - Present
- ➢ Designing and implementing solutions to solve tasks in the domain of Recruiting and Human Resources (Information Retrieval, Text Classification, Named Entity Recognition)
- ➢ Implementing Machine Learning models

Research Assistant   **Department of Informatics, AUEB**   2017 - Present
- ➢ Working as a research assistant at AUEB NLP Group under Prof. Ion Androutsopoulos
- ➢ 7 conference papers published

Research Engineer   **NCSR "Demokritos" - DICE**   2019 - 2022
- ➢ Designing and implementing solutions to solve NLP tasks in the legal and financial domains (Information Retrieval, Text Classification, Named Entity Recognition)
- ➢ Dataset curation: Acquisition, Structuring, Cleaning, Validation, Publishing
- ➢ Implementing Machine Learning (mostly Deep Learning) models
- ➢ Large-Scale Language Model pre-training: BERT, RoBERTa
- ➢ 7 conference papers published

Data Scientist   **Cognitiv+**   2018 – 2019
- ➢ Designing and implementing solutions to solve NLP tasks in the legal domain (Element Extraction, Text Classification)
- ➢ Implementing Machine Learning (mostly Deep Learning) models

Web Development and Promotion   **Freelancer**   2015 – 2017
- ➢ Website and E-Shop Development, Search Engine Optimization, Google AdWords, Facebook Ads

EDUCATION

M.Sc. Data Science   GPA: 9.23 / 10
Departments of Informatics and Statistics, Athens University of Economics and Business

B.Sc. Computer Science   GPA: 7.67 / 10
Department of Informatics, Athens University of Economics and Business

RESEARCH INTERESTS

Artificial Intelligence, especially Natural Language Processing and particularly:
- ➢ Machine Learning, especially Deep Learning
- ➢ Information Extraction
- ➢ Text Classification, especially Large-Scale Multi-Label Text Classification
- ➢ Few-shot and Zero-shot Learning
- ➢ Information Retrieval for large document collections
- ➢ Transfer Learning (Pre-trained Language Models and Domain Adaptation)

PUBLICATIONS

- ➢ **Machine learning in bank merger prediction: A text-based approach**
  Apostolos Katsafados, George Leledakis, Emmanouil Pyrgiotakis, Ion Androutsopoulos, Manos Fergadiotis
  In the European Journal of Operational Research, July 2023

- ➢ **Textual Information and IPO Underpricing: A Machine Learning Approach**
  Apostolos Katsafados, George Leledakis, Emmanouil Pyrgiotakis, Ion Androutsopoulos, Ilias Chalkidis and Manos Fergadiotis
  In the Journal of Financial Data Science, Spring 2023.

- ➢ **System and method for automatically tagging documents**
  Eleftherios Panagiotis Loukas, Eirini Spyropoulou, Prodromos Malakasiotis, Emmanouil Fergadiotis, Ilias Chalkidis, Ioannis Androutsopoulos and Georgios Paliouras
  US Patent App. 17/873,932

- ➢ **An Exploration of Hierarchical Attention Transformers for Efficient Long Document Classification**
  Ilias Chalkidis, Xiang Dai, Manos Fergadiotis, Prodromos Malakasiotis, and Desmond Elliott

- ➢ **FiNER: Financial Numeric Entity Recognition for XBRL Tagging**
  Lefteris Loukas, Manos Fergadiotis, Ilias Chalkidis, Eirini Spyropoulou, Prodromos Malakasiotis, Ion Androutsopoulos and George Paliouras
  In the Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics (ACL 2022) (Long Papers), Dublin, Republic of Ireland, May 22–27, 2022.

- ➢ **MultiEURLEX - A multi-lingual and multi-label legal document classification dataset for zero-shot cross-lingual transfer**
  Ilias Chalkidis, Manos Fergadiotis, and Ion Androutsopoulos
  In the Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP 2021), Punta Cana, Dominican Republic, November 7–11, 2021.

- ➢ **EDGAR-CORPUS: Billions of Tokens Make The World Go Round**
  Lefteris Loukas, Manos Fergadiotis, Ion Androutsopoulos and Prodromos Malakasiotis
  In the Proceedings of the Economics and Natural Language Processing Workshop (ECONLP 2021) of the Conference on Empirical Methods in Natural Language Processing (EMNLP 2021), Punta Cana, Dominican Republic, November 7–11, 2021.

- ➢ **Paragraph-level Rationale Extraction through Regularization: A case study on European Court of Human Rights Cases**
  Ilias Chalkidis, Manos Fergadiotis, Dimitrios Tsarapatsanis, Nikolaos Aletras, Ion Androutsopoulos and Prodromos Malakasiotis
  In the Proceedings of the Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL 2021), (Held online due to COVID-19), June 6–11, 2021.

- ➢ **Neural Contract Element Extraction Revisited: Letters from Sesame Street**
  Ilias Chalkidis, Manos Fergadiotis, Prodromos Malakasiotis and Ion Androutsopoulos
  Pre-print (Update of the article "Neural Contract Element Extraction Revisited"), February 23, 2021.

- ➢ **Regulatory Compliance through Doc2Doc Information Retrieval: A case study in EU/UK legislation where text similarity has limitations**
  Ilias Chalkidis, Manos Fergadiotis, Nikolaos Manginas and Prodromos Malakasiotis
  In the Proceedings of the 16th Conference of the European Chapter of the Association for Computational Linguistics (EACL 2021), (Held online due to COVID-19), April 21–23, 2021.

- ➢ **Using Textual Analysis to Identify Merger Participants: Evidence from the U.S. Banking Industry**
  Apostolos Katsafados, Ion Androutsopoulos, Ilias Chalkidis, Manos Fergadiotis, George Leledakis and Emmanouil Pyrgiotakis
  In Finance Research Letters, January 26, 2021.

- ➢ **An Empirical Study on Large-Scale Multi-Label Text Classification including Few and Zero-Shot Labels**
  Ilias Chalkidis, Manos Fergadiotis, Sotiris Kotitsas, Prodromos Malakasiotis, Nikolaos Aletras and Ion Androutsopoulos
  In the Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP 2020), (Held online due to COVID-19), November 16–20, 2020.

- ➢ **LEGAL-BERT: "The Muppets straight out of Law School"**
  Ilias Chalkidis, Manos Fergadiotis, Prodromos Malakasiotis, Nikolaos Aletras and Ion Androutsopoulos
  In Findings of Empirical Methods in Natural Language Processing (EMNLP 2020),(Held online due to COVID-19), November 16–20, 2020.

➢ **Neural Contract Element Extraction Revisited**
Ilias Chalkidis, Manos Fergadiotis, Prodromos Malakasiotis and Ion Androutsopoulos
In the Proceedings of the Document Intelligence Workshop - co-located with NeurIPS 2019, Vancouver, Canada, December 8-14, 2019.

➢ **Large-Scale Multi-Label Text Classification on EU Legislation**
Ilias Chalkidis, Manos Fergadiotis, Prodromos Malakasiotis and Ion Androutsopoulos
In the Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics (ACL 2019) (Short Papers), Florence, Italy, July 28 - August 2, 2019.

➢ **Extreme Multi-Label Legal Text Classification: A case study in EU Legislation**
Ilias Chalkidis, Manos Fergadiotis, Prodromos Malakasiotis, Nikolaos Aletras and Ion Androutsopoulos
In the Proceedings of the Workshop on Natural Legal Language Processing - co-located with NAACL-HLT 2019, Minneapolis, USA, June 2-7, 2019.

➢ **The Predictions of Bank Merger Targets and Acquirers with Textual Analysis**
George Leledakis, Apostolos Katsafados, Ion Androutsopoulos, Ilias Chalkidis, Emmanouel Fergadiotis
In the Proceedings of the 9th National Conference of the Financial Engineering and Banking Society (FEBS 2018), Athens, Greece, 2018.

➢ **The Effect of Textual Information on IPO Underpricing**
Ion Androutsopoulos, Ilias Chalkidis, Emmanouel Fergadiotis, Apostolos Katsafados, George Leledakis and Alexandra Ntetsika
In the Proceedings of the 8th National Conference of the Financial Engineering and Banking Society (FEBS 2017), Athens, Greece, December 18-19, 2017. 2017.

REVIEWING / PROGRAM COMMITTEE

➢ **ACL Rolling Review**   **2021 • 2022 • 2023**
➢ **EMNLP**   **2021 • 2022**
➢ **NLLP**   **2020 • 2021 • 2022 • 2023**

SKILLS AND ABILITIES

➢ **Deep Learning Frameworks**   TensorFlow • Keras • PyTorch • HuggingFace
➢ **Programming Languages**   Python • Java • C • C++ • MySQL
➢ **Code Repositories**   GitHub • GitLab • Bitbucket
➢ **Web Technologies**   PHP • HTML • JavaScript • jQuery • CSS • MySQL
➢ **Cloud Platforms**   Google Cloud Platform (GCP)
➢ **Languages**   Greek (Native) • English (CEFR:C2)