Fábio Lobato

Computer Engineer, Data Scientist

Summary

Creative data scientist with exceptional data mining skills and over a decade of experience in Research, Development & Innovation (R,D&I) projects involving artificial intelligence and natural language processing for data-driven decision-making. I am a Technological Development and Innovative Extension Fellow of the National Council for Scientific and Technological Development (CNPq), currently with a Senior Postdoctoral Researcher for one year at the University of São Paulo. I also collaborate with the Ministry of Science and Technology of Brazil (MCTI) in the advisory committee for (R,D&I) projects and in the Digital Economy Working Group of G20 (DEWG) AI specialist, being one responsible for the Artificial Intelligence products from G20 under the Brazilian presidency.

Work experience

Senior Posdoctoral Researcher - CNPq funding — Dec 2024 - present

University of São Paulo and Universidad Del País Vasco

- Conducting research on Large Language Models at the Laboratory of Computational Intelligence - LABIC. Collaborating with the *Universidad Del Pais Vasco* for a three-month period at the Intelligent Systems Group

Lecturer — Jun 2014 - present

Federal University of Western Pará

- Research Group Leader & Laboratory Principal Investigator - Laboratory of Applied Computing

Visiting Research - PosDoc — Sep 2018 - Dec 2018

Universidad Del País Vasco

- Worked together with the Intelligent Systems Group

Visiting Research - PhD Split Time Period — Jan 2015 - Aug 2015

University of Kent

- Worked together with the Artificial Intelligence and Data Analytics Group

Education

Ph.D. Electrical Engineering and Applied Computing — 2011-2016

Federal University of Pará with Split-time period - University of Kent

M.Sc in Electrical Engineering and Applied Computing — 2010-2011

Federal University of Pará

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Portuguese	Native
English	Fluent
Spanish	Fluent
German	A1

Languages	Python, C/C++, Java
Frameworks	TensorFlow, Keras, NTLK, Pandas, Numpy, Sklearn, Auto-sklearn, SpaCy, Gensim
Language Models	Llama, GPT, BERT, Word2Vec, FastText

Certifications

MBA Essentials
London School of Economics and Political Science, LSE, United Kingdom

Advanced International Certificate Course on IP Asset Management for Business
Korea Advanced Institute of Science and Technology, KAIST, South Korea

Selected Publications

Leite, J. B. P.; Nhoatto, F. P.; Jacob Junior, A. F. L.; Hermida, R. S.; **Lobato, Fábio**. **Computational Tools for Neuronal Morphometric Analysis: A Systematic Search and Review** *Neuroinformatics (2024)* 🔗

Jacob Junior, Antonio; Do Carmo, Fabricio; De Santana, Adamo; Santana, Ewaldo; **Lobato, Fabio**. **EvoImp: Multiple Imputation of Multi-label Classification data with a genetic algorithm** *PLoS One (2024)* 🔗

do Carmo, F. A.; Silva Jr., J. L. F.; Rossi, R. G.; **Lobato, Fábio**. **Text representations for lyric-based identification of musical subgenres.** *IEEE Latin America Transactions (2023)* 🔗

Akihito, Victor; **Lobato, Fábio**; *Marcacini, Ricardo.* **Weak Supervision for Question and Answering Sentiment Analysis** *International Conference on Machine Learning and Applications (ICMLA)(2023)* 🔗

Rocha, G. ; **Lobato, Fábio**; *Cortes, O. A. C..* **Evaluation of Metaheuristics Using TensorFlow Parallelism on GPU** *23rd International Conference on Hybrid Intelligent Systems (2023)* 🔗

Menezes, P. H. C. ; Justino, A. F. ; Barata, B. A. P. ; Jacob Junior, A. F. L.; **Lobato, Fábio**. **Market Overview in Social CRM: An analysis of job advertisements.** *IEEE International Conference on Web Intelligence and Intelligent Agent Technology (WI-IAT)(2023)* 🔗

Goncalves, W. G. E.; Santos, M. H. P.; Brito, L. M.; Palheta, H. G. A.; **Lobato, Fábio**; *Demachki, S.; Ribeiros Dos Santos, Â. K.; Araujo, G..* **DeepHP: a new gastric mucosa histopathology dataset for Helicobacter pylori infection diagnosis.** *International Journal of Molecular Sciences (2022)* 🔗

Pedroso, P; **Lobato, Fábio**; *SA, E; Jacob Jr. Antonio F. L..* **Handling out of vocabulary words at the semantical level using recurrent neural networks.** *21st IEEE/WIC/ACM International Conference on Web Intelligence and Intelligent Agent Technology (2022)* 🔗

Community Services

- Published more than 100 papers in high-level journals, conferences, and book chapters

- I have been working since 2021 in collaboration with the Tribunal de Justiça do Maranhão on a project involving transparency, integrity and data-driven decision-making

- Experienced in funding applications and R&D,I projects management, has a distinguished productivity scholarship from the Brazilian National Council for Scientific and Technological Development (CNPq)

- Participated in four MCTI "Technical Support" events for evaluating "*Lei do Bem*" (Law Nº 11.196/2005) (R,D&I) projects

- Participated in Digital Economy Working Group (G20) as Artificial Intelligence Specialist - under the Brazilian Presidency - Working on Conceptual Notes, Executive Summaries, Policy Papers, and Reports on AI Capabilities in the Public Sector.