

Vítor Nascimento Lourenço

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In a Nutshell

I am currently a master's candidate in Computing at the Computing Institute of Federal Fluminense University (IC/UFF), I hold a Bachelor in Computer Science from the same Institute and a Certificate in Entrepreneurship and Innovation from the same University. Also, I am a Computer Technician from the Federal Center for Technological Education Celso Suckow da Fonseca (CEFET/RJ).

My research interests are related to Machine Learning, Applied Artificial Intelligence, Pattern Recognition, Data Mining and Knowledge Discovery, and Information Retrieval.

Work Experience

- **IBM Research** **Rio de Janeiro**
Research Intern *August 2018–present*
I support the development of learning-based solutions on knowledge engineering for natural resource challenges. I develop the Python framework for IBM Hyperlinked Knowledge Graph technologies.
- **LDSOFT** **Niterói**
Research Intern *July 2017–July 2018*
I was responsible the coordination of a project for the development of a trademark image retrieval system using computer vision and pattern recognition techniques. Also, I was member of the development team of a natural language processing system for trademark name matching.

Education

Academic Qualifications.....

- **Master in Computing** **Niterói**
Federal Fluminense University *2019–Present*
 - 2019–Present: National Council for Scientific and Technological Development Fellow
 - 2019–Present: Student member of Database Research Group from the Systems and Information Engineering Lab
- **Bachelor in Computer Science** **Niterói**
Federal Fluminense University *2014–2018*
 - 2014–2018: Student member of Database Research Group from the Systems and Information Engineering Lab
 - 2014–2016: Founder and leader of Data Science Club - UFF
- **Minor - Entrepreneurship and Innovation** **Niterói**
Federal Fluminense University *2014–2015*
- **Informatics Technician** **Rio de Janeiro**
Federal Center for Technological Education of Rio de Janeiro *2011–2014*
 - 2012–2014: Student member of Applied Computing Research Group

Languages.....

- **Portuguese**
Fluent - Native
- **English**
Advanced - Understanding, reading, writing and speaking
- **German**
Basic - Understanding, reading and writing

Selected Publications.....

- Moreno, M.; **Lourenço, V.**; Sandro Fiorini S. R.; Costa, P.; Brandão, R.; Civitarese, D.; Cerqueira, R.. *Managing Machine Learning Workflow Components*, To appear in the 2020 14th IEEE International Conference on Semantic Computing (ICSC).
- Souza, R.; Azevedo, L.; **Lourenço, V.**; Soares, E.; Thiago, R.; Brandão, R.; Civitarese, D.; Brazil, E. V.; Moreno, M.; Valdúriez, P.; Mattoso, M.; Cerqueira, R.; Netto, M. A. S.. *Provenance Data in the Machine Learning Lifecycle in Computational Science and Engineering*. In 2019 14th Workflows in Support of Large-scale Science (WORKS) co-located with the 2019 ACM/IEEE International Conference for High Performance Computing, Networking, Storage, and Analysis (SC).
- **Lourenço, V. N.**; Silva, G.G.; Fernandes, L.A.F.. *Hierarchy-of-Visual-Words: a Learning-based Approach for Trademark Image Retrieval*. In 2019 32nd Conference on Graphics, Patterns and Images (SIBGRAPI), 218-225.
 - Best Computer Vision/Image Processing/Pattern Recognition Main Track Paper Award
 - Best Work Award in the Workshop of Undergraduate Works
- **Lourenço, V.**; Mann, P.; Guimarães, A.; Paes, A.; Oliveira, D.. *Towards Safer (Smart) Cities: Discovering Urban Crime Patterns Using Logic-based Relational Machine Learning*. In 2018 International Joint Conference on Neural Networks (IJCNN), 1-8.
- **Lourenço, V.**; Mann, P.; Paes, A.; Oliveira, D.. *SiAPP: Um Sistema para Análise de Ocorrências de Crimes Baseado em Aprendizado Lógico-Relacional*. In 2016 XII Brazilian Symposium on Information Systems (SBSI), 168-175.

Technical skills

- **Programming Languages**
Advanced knowledges in C, Python and TeX;
Basic knowledges in R and Java.
- **Data Science and Machine Learning Tools**
Advanced knowledge in NumPy, SciPy, Matplotlib, and Scikit-Learn;
Basic knowledge in Pandas, Tensorflow, OpenCV, and Airflow.