

# SAULLO H. G. DE OLIVEIRA

Contact information available on <http://sholiveira.com>

## PERSONAL SUMMARY

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Machine Learning Engineer interested in development of new technologies, artificial intelligence, computer vision and deep learning. Passionate for technology, open source & science, and constantly acquiring new knowledge.

## LANGUAGES

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**Portuguese** Native.      **English** Fluent.

## SKILLS

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<b>Programming Languages</b>	Python, MATLAB, Java, R, C.
<b>APIs &amp; Other tools</b>	Git, Latex, Linux, numpy, scipy, pandas, nosetests, cProfile scikit-learn, Keras, Tensorflow, etc.
<b>Data Visualization</b>	matplotlib, seaborn.
<b>Supervised Learning</b>	Linear Models, kNN, Decision Trees, Ensembles Especialist Systems.
<b>Neural Networks</b>	MLP, RBF, Echo State Networks, ELM, Convolutional Networks LeNet, AlexNet, ResNet, Auto-Encoders, UNet, etc.
<b>Non-supervised Learning</b>	K-Means, Mixture Models, DBSCAN Biclustering, Formal Concept Analysis, Frequent Pattern Mining.
<b>Other</b>	Agile development, Test Driven Development, Profiling and Code Optimization.

## PROFESSIONAL EXPERIENCE

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**Daitan Group** Jul. 2019 - Current  
*Data Scientist*

- POC design, requirement analysis for data products / services, exploratory data analysis, implementation of ML models, etc.

**SiDi** Mai. 2019 - Jul. 2019  
*Computer Vision Specialist*

- Applications of state-of-art research results into embedded solutions for Windows platforms.

**National Council for Scientific and Technological Development CNPq** 03/2015 - 03/2019  
*Doctoral Fellow on Computer Engineering*

### · Research Projects

- **Ongoing** Structural Stability for Multi Task Learning (MTL) with applications on climate models and temporal series.
- **Submitting** Structure Estimation for MTL with applications on Alzheimer's Disease research. A poster presentation was held on the 6th BRAINN Congress, Campinas, Brazil; and paper was submitted to the International Joint Conference on Artificial Intelligence (IJCAI) 2019.
- **2018 - São Paulo-Alberta BrainHack Workshop and Hackathon** Took part on the image reconstruction challenge using both image and k-space domains.
- **2017 - Reviewer** on the 10th Brazillian Simposium on Intelligent Automation (Simpósio Brasileiro de Automação Inteligente - SBAI).

- **2016 - Students Representative** on the Graduate Board of the School of Electrical and Computer Engineering (FEEC) at the University of Campinas (Unicamp).
- **2015 - Reviewer** on the 23th XXIII Congress of Scientific Initiation on Unicamp (PIBIC).
- **2014 / 2016 - IEEE-CIS** Chair of the Students Chapter of the IEEE Computational Intelligence Society at FEEC - Unicamp.
- **2014 / 2016 - APOGEEU** Secretary on the graduate students association at FEEC.

**National Council for Scientific and Technological Development CNPq** Ago. 2013 - Fev. 2015  
*Masters Fellow on Computer Engineering*

- **Research** Biclustering aggregation from enumerative results.  
 Results of this research are the main body of my Msc dissertation and were presented on the 2nd BRAINN Congress, Campinas, Brazil; and a paper was published on the proceedings of the International Conference on Machine Learning and Data Mining, Hamburg, Germany, 2015;
- **2014 - I Dados Abertos Hackday** Organized the 1st Open Data Hackathon at FEEC, and a 9 hour hands-on on Machine Learning for the participants, where we made available to the participants an aggregation of several public data sources related to the Brazillian Deputy Chamber and its election.
- **2013 - Hackathon Câmara dos Deputados** Took part in a team whose goal was to find groups of deputies that vote in similar way across a set of projects. The work involved data scrapping, OCR, data aggregation, biclustering and NLP methods.
- **2013 - Visitor at University of Minnesota:** in contact with Prof. Dr. Arindam Banerjee, stayed at his laboratory for about 45 days.

**EMC<sup>2</sup>** 04/2011 - 12/2011  
*Full-Stack Developer*

- Customization of VMware Infra v8 systems to implement the Information Technology Infrastructure Library (ITIL) on big telecom customers. Main activities included requirement analysis, solution design, risk management, software development and production deployment.

**Technology School of Indaiatuba (FATEC-Id)** 03/2011 - 05/2011  
*Professor*

- Temporary professor of the subjects: • Introduction to Programming Languages; • Database Systems Load Balancing and Optimization; and • Database Systems Architecture

**Kaizen Consulting and Information Services LTDA.** 06/2008 - 03/2011  
*Software Developer & Training Instructor*

- Customization of EMC<sup>2</sup> Documentum systems with Java 6, JSP, and the APIs Documentum Foundation Classes (DFC) and Web Development Kit (WDK).
- Developed corporate education materials on Electronic Document Management, Java, Servlets and JSP.

## EDUCATION

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### State University of Campinas (UNICAMP)

- Doctoral 2015 - 2019 (Expected)  
 Department of Industrial Automation and Computer Engineering (DCA)  
 School of Electrical and Computer Engineering (FEEC)  
 Laboratory of Biotechnology and Bioinspired Computing (LBiC)
- Masters 2013 - 2015  
 Department of Industrial Automation and Computer Engineering (DCA)

School of Electrical and Computer Engineering (FEEC)  
Laboratory of Biotechnology and Bioinspired Computing (LBiC)

**Technology School of Indaiatuba (FATEC-Id)**

- System Analyst with minors on Database Systems

2007-2009