

Marcos Leal



/in/marcospedroleal



+55 21 98862 4014



mleal.ml



marcoslealsilva@gmail.com

Skills

- Deep Neural Networks Frameworks (Tensorflow, Keras)
- Digital Signal Processing (FFT, TF-IDF, Convolution)
- Dashboards and Datavis tools (Tableau, Plotly, matplotlib)

Interests

Data Visualization

Artificial Intelligence

Data Science

Machine Learning

Neural Networks

Education

- Ongoing
Dez 2019 **Computer Science Masters Student** Universidade de São Paulo
São Paulo, SP, Brasil
- 2012 - 2016 **Computer Science Bachelor's Degree** Universidade Federal Fluminense
Niterói, RJ, Brasil
CR: 7.7/10.0
- 2015 - 2016 **Exchange Program** Pace University
New York, NY, USA
GPA: 4.0/4.0
- 2009 - 2011 **Technician High School (Electronic)** CEFET/RJ
Rio de Janeiro, RJ, Brasil

Research

- 2016 - 2017 **Bachelor's Thesis** Universidade Federal Fluminense
1° Place in the UFF Theses, Dissertations and TCC Competition in 2017
Musical Instruments Detection with Deep Neural Networks
- This paper deals with how to classify a dominant instrument in a piece of music using convolutional neural networks. We deal with digital signal processing, Fourier transform and spectrograms. We deal with Machine Learning, Neural Networks and some famous networks used at work, such as LeNet, AlexNet and GoogLeNet. Finally we compare the results of the different networks with different parameters for the input.
- 2016 **Junior Researcher** Loyola University Chicago
Chicago, IL, USA
Conversation Moderator: Conversation Moderator: An automated tool to measure and incentivize speaking in group settings(Presented at SBFA 2016)
- The goal of this project was to develop an Android application capable of managing the speakers of a conversation. Originally the application was designed for business use as a tool for management but the project went through small adaptations to be used in the clinical environment as a support tool for speech therapists. The application manages how many speakers are present dynamically and at the end of the recording presents a statistical summary about each.
- 2014 - 2015 **Scientific Research** Universidade Federal Fluminense
Machine Learning by Transference in Uncertain Relational Domains: Application in Urban Data and Smart Cities
- In this work we developed a system to predict the bus lines of the city of Niterói from the data collected from GPS. With these data organized we were able to organize the data and provide the city's Secretary of Transport with the information needed to facilitate on-line access.

Experience

- 2013 - 2015 **Discrete Mathematics TA** Universidade Federal Fluminense
- Tutoring of Mathematics and Mathematics Fundamentals
- 2018 - Present **Data Scientist** B2W
- Working at the Techlabs innovation team. Develop projects related to the buybox and SEO optimization. Data Science research aligned to the business plan. I present possible ways to improve systems, implement analysis, metrics and build machine learning models to solve daily problems.