Cristian Garcia

Data Scientist + Developer with Background in Maths & Physics

Contact Info

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Summary

Data Scientist and Developer with background in maths and physics. My two passions are programming and deep learning, I consider myself a strong programmer/developer given my experience creating real world applications and my love for functional programming, however my area of interest has always been scientific computation and enjoy programming deep neural networks in tensorflow.

Experience

- AristaDev - Cofounder/Developer
- PTK - Mathematical Developer (2015)
- Senseta - Data Scientist (2016)
- BD Guidance - Data Scientist (current)

Open Source

- phi: fluent functional programming in python.
- dataget: download, extract and process popular machine learning

datasets with a single line of bash or python.
- tfinterface: develop structured models in tensorflow and get lots functionality for free
- cybrain: fast neural network in python, written in cython.
- karma: MVC library for Unity3D

Areas of Interest

Data Science

Deep Learning/Neural Networks, Artificial Intelligence, Optimization/Heuristics, Mathematical Modelling, Agent-based Simulation, Network Analysis

Development

Functional Programming, Distributed Systems

Languages

- Spanish: native
- English: C2, bilingual school since 4 years old

Programming Languages

Python: 6+ years, Matlab: 6+ years, Mathematica : 3+ years, C#: 2+ years, Elixir: 2+ years, JavaScript: 1+ years, Dart: 1+ years, Cython: 1+ years

Mini-projects

C, Haskell, Java, Lisp, Scala, Elm, Rust, Coq, Julia

Tools/Frameworks

Data Science

Tensorflow (python), Scikit Learn (python), Pandas, Numpy, NetworkX (python), Spark (scala/python), AnyLogic (java)

Development

Phoenix Framework (elixir), Flask (python), Graphine (graphql + python), Git, Unity3D (c#), PostgreSQL, MongoDB, RethinkDB

DevOps

Docker, Nginx

Community

Organizations/Groups

- Co-founder of Machine Learning Colombia
- Co-founder of Machine Learning Meetup Medellin
- Founder of colomb-ia

Talks/Conferences

- Deep Learning with TensorFlow at Machine Learning Meetup Medellin
- Introduction to Spark at Machine Learning Meetup Medellin
- Deep Learning & TensorFlow at Big Data & Data Science Bogotá
- Deep Learning with TensorFlow at pataconf
- Introduction to Deep Learning with TensorFlow at PyCon Colombia
- Scalable Deep Learning with TensorFlow at ScaleConf Colombia
- Machine Learning 2017 at Machine Learning Meetup Medellin
- TensorFlow for Developers at Machine Learning Meetup Medellin

Webinars

- Deep Learning with TensorFlow with BD Guidance on Youtube.
- Introduction to Machine Learning with BD Guidance on Youtube.
- Neural Networks with TensorFlow for Image Recognition with BD Guidance on Yotube.
- Q-Learning with OpenAI Gym + Numpy with BD Guidance on Yotube.

Videos

- Deep Reinforcement Learning con TensorFlow para el entorno Lunar Lander de OpenAI Gym

Projects

- Basic ConvNet for the German Traffic Signs Dataset

e-Learning

- Machine Learning by Andrew Ng on Coursera
- Neural Networks for Machine Learning by Geoffrey Hinton on Coursera
- Intro to Artificial Inteligence by Sebastian Thrun and Peter Norvig on Udacity
- Artificial Inteligence for Robotics by Sebastian Thrun on Udacity
- Deep Learning by Vincent Vanhoucke (Google) on Udacity
- Software Development Process by Alex Orso on Udacity.

Things I Love

Papers

- Playing Atari with Deep Reinforcement Learning Mnih et al 2013 (Deep Mind)
- Asynchronous Methods for Deep Reinforcement Learning Mnih et al

2015 (Deep Mind)
- Playing FPS Games with Deep Reinforcement Learning Glample et al 2017 (Carnegie Mellon)
- Deep Residual Learning for Image Recognition He et al 2015 (Microsoft)
- Dropout: A Simple Way to Prevent Neural Networks from Overfitting Hinton et al 2014 (Toronto University)
- Highway Networks Srivastava et al 2015

Books

- Reinforcement Learning: An Introduction Sutton & Barto- 2017
- Deep Learning Book Ian Goodfellow, Yoshua Bengio and Aaron Courville - 2016

Hobbies

- Tennis
- Climbing (boulder)