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: Cofounder and main developer on an Augmented Reality platform. I developed the mobile client and backend of Arista using tecnologies such as Unity3D, Elixir, Docker, Nginx, and PostgreSQL.
- PTK - Mathematical Developer (2015): Researched on strategies to optimize pickup planning in warehouses. Researched on technologies to create scalable multi-tenant software.
- Senseta - Data Scientist (2016): Developed a Linux and Windows python application for HR software to measure employee productivity. Cleaned and analyzed large datasets using Spark and Zeppelin. Created a service in Python for Entity extracting using NLTK. Created a generic ML prediction service using Scikit Learning and Flask.
- BD Guidance - Data Scientist (current): Designed the curriculum of various Data Science/ML courses. Evaluated various IoT platforms. Investigated technologies such a TensorFlow and OpenCV to run ML algorithms in IoT devices.

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

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

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
- TensorFlow for Developers at Machine Learning Meetup Medellin

Personal Projects

- Basic ConvNet for the German Traffic Signs Dataset
- SqueezeNet with Batch Normalization on TensorFlow
- An implementation DenseNet with ELU layers on TensorFlow