

Alex Gaudio

ML and Deep Learning Researcher

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Work Experience:

Alluvium: Senior Data Scientist, 1st employee

Dec 2015 –

- First employee after founders, building a business that deploys intelligent autonomous agents close to sources of streaming data. Focusing on machine learning, stream processing, and IoT.

Sailthru: Senior Data Scientist and Engineer

Aug 2012 – Nov 2015

- Founding and leading the data science team. I hired my boss, VP of Data Science Jeremy Stanley. Grew team from 1 to 4 full time employees. Promotion to “Senior” in 2014.
- Expertise in machine learning and distributed systems engineering. Invented online optimization algorithm and deployed it into large distributed system. Created task dependency scheduler for complex distributed pipelines. Patent application for NLP topic extraction system.
- Created and launched Sightlines™ to predict user behavior. Huge success in A/B tests: 195% increase in client revenue, 41% increase in purchases, 69% improvement in opt-out rate. For each client, per day, we compute 3 million models (GBM) and ingest roughly 2.5 billion data points.
- Created the data science platform to support our products in production and do research. Auto-scales to 6400 CPUs and 48,800mb RAM on AWS Spot instances. Dockerized on Mesos.

Adaptly: Developer

Dec 2011 – July 2012

- Specializing in data science and big data engineering to enhance Facebook targeting.
- Built tooling and machine learning features to optimize Facebook targeting: Implemented Poisson gradient descent to approximate numerical values for user age groups. Used Dijkstra's algorithm on DBpedia and Freebase to find related keywords. Built real-time hourly stats collection app with ETL. Developed service-oriented platform and web-apps.

Flat World Knowledge: Software Engineer

Feb 2011 – Dec 2011

- Automating textbook publishing to produce low-cost, customizable textbooks for classrooms.
- Specializing in Python backend development, Data Analytics, ETL, DBA, Reporting. Built production reporting system that merged data from 5 disparate DBs.

Achievements:

- Developing a Deep Neural Network with CNNs, Node2Vec, FFTs and Tensorflow – Sept 2016
- Speaker, Mesoscon. Challenges in Optimizing Job Scheduling on Mesos. – Aug 2015
- Patent Application. Auto-Tagging System and Method In Support Of High-Engagement Communications. – 2015
- Designed a 3D Printer (DLP Stereolithography) and a CO2 Laser – 2014-2016
- Winner of Sailthru Robotics Hackathon Competition – 2013-2014
- Kaggle Data Science Competition. 5th place in NY and 28th globally (with 2 friends) – May 2012
- Stanford Machine Learning Course. Perfect score in class. – Dec 2011
- Speaker, PyGotham NYC. Tmux + IPython == Awesome. TA'd Django class. – Sept 2011

Education:

Bard College, Annandale-on-Hudson, NY

2006 - 2010

B.A. May 2010, Music, Pre-med. GPA: 4.0 Senior year, 3.75 Junior year, 3.61 Avg
Senior Thesis, *Cultivating Expression: Connecting With Each Other Through Jazz*
2010 Recipient of the Larry McLeod Award in Jazz