KIRILL IGUMENSHCHEV

1632 Walnut St. (585) 313-6024 Berkeley, CA 94709 kirill.igum@gmail.com

www.linkedin.com/in/kirilligum

Employment

Principal Data Scientist, Lantern Credit, Newport Beach, CA 2017-present White-box machine learning researchs · Data pipeline automation · team building Co-founder, MADObjective, San Francisco 2017-present

Sales and marketing insights and automation. UI · ML · product · Agile

Founder, FlowerBid, San Francisco 2017-present

Web marketplace for farming businesses in California

Data Scientist, 6sense, San Francisco

2015-2017

prediction models, feature engineering, and data-pipeline monitoring/debugging tools for lead scoring \cdot distributed scraping, ML-based categorization of web pages from weblogs \cdot foreign-to-English translation on HIVE \cdot distributed distance-based clustering

Lead Data Scientist, Sentieo, San Francisco

2015-2017

natural language processing of earnings conference calls · trading indicators from website visits and web-search Postdoc (Computational Chemistry), *University of California*, *Berke*- 2012-2014

ley

Mathematical and computational methodology for simulating quantum effects in previously unapproachable large systems by leveraging path-integrals and distributed C++ algorithms on 20,000 computers

Research Assistant, Los Alamos National Laboratory summers 2003, 2004, 2006 Research Assistant, University of Rochester 2002-2004, 2011-2012

Top Skills

Highly competent: numerical methods (ODE, MC integration, tree ensembles (random forest)) \cdot C++ (generic programming, cache optimization, supercomputers)

Experienced: data structures and algorithms \cdot python (pandas, sklearn) \cdot SQL \cdot MapReduce \cdot web UI (reactjs) \cdot data synopsis \cdot data warehouse design \cdot inferential statistics

Relevant Coursework

data science \cdot statistics \cdot machine learning \cdot neural networks \cdot lean launchpad start-up \cdot probability \cdot statistical physics \cdot game theory \cdot coaching and leadership \cdot natural language processing

Personal Projects

Command line tool for statistical description https://github.com/kirilligum/dacli

Calculates descriptive statistics and approximate quantiles and a histogram in one-pass to minimize I/O. Outperforms similar tools. Tested on >100GB files. Profiled and optimized using Valgrind and CrayPat. [C++, streaming algorithms, optimization]

Modified extremely randomized trees (in progress) https://github.com/kirilligum/turids

Cache-optimized implementation of extremely randomized trees. [C++, cache-optimization, cache-oblivious]

Educational games recommendation platform

Founded and co-led a team of 8 people for a lean start-up class at HAAS Business School. Customer discovery with over 10 hypothesis-validation interviews a week. Established partnership with content providers and schools. Developed a WebApp prototype. [C++, HTML/CSS, Wt]

Education

PhD and MS (Chemistry), University of Rochester, Rochester, NY	2004-2011
BS (Physics), University of Rochester, Rochester, NY	2002-2004
Moscow Institute of Physics and Technology, Moscow, Russia	2000-2001

Publications

J. Chem. Phys. 138, 054104 (2013); Molecular Physics 110,837 (2012); Phys. Rev. E 84, 026616 (2011); Phys. Rev. B 71, 033201 (2005); J Chem Phys. 127, 114902 (2007)

Personal

endurance sports (cycled 200 miles in a day) · intellectual confidence mentorship · tango/salsa instructor · barefoot ice climbing · organized art events for 300+ people · mixed-martial arts (caught a laptop thief)