

Will Wolf

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EDUCATION

Open-Source Machine Learning "Masters"

A 10-month, self-curated deep-dive into select topics in machine learning

Casablanca, Morocco

Sep 2016 – July 2017

Penn State University, Schreyer Honors College

Bachelor of Science, Industrial Engineering, with minor in Mathematics, 3.57 GPA

University Park, Pennsylvania

Sep 2007 – Dec 2011

- Honors thesis (advised by Dr. Chris Byrne): *Prisoner's Dilemma Games on a Geodesic Dome*

EXPERIENCE

Lead Machine Learning Engineer

Sep 2020 – Present

Research Engineer

Oct 2018 – Sep 2020

Senior Machine Learning Engineer

Aug 2017 – Oct 2018

ASAPP, Inc.

New York, New York

- Core member of Dr. Kilian Q. Weinberger's research group
- Research and develop methods for dialog generation, dialog segmentation, "procedure induction" in goal-oriented dialog, text recommendation and online learning
- Develop, build, deploy and maintain production services for intent classification, personalized next-utterance recommendation and conversation summarization (used by Vodafone, jetBlue, Dish, etc.)
- Mentor junior team members in research, software engineering and machine learning fundamentals

Data Scientist

Mar 2015 – July 2016

ShopKeep

New York, New York

- Developed, built and maintained internal services for computing merchant similarity in a continuous space
- Built survival analysis models for predicting merchant churn
- Authored internal software package offering composable predictive modeling objects
- Built and maintained ETL infrastructure for data ingestion, transformation and visualization

Data Science Teacher

Aug 2015 – Dec 2017

Thinkful

Remote

- Mentored students throughout a 10-12 week, project-based data science curriculum
- Main topics: the Python scientific and inferential stack, databases and APIs, Git and version control, probability and statistics, applied machine learning

Data Science Consultant

Sep 2015 – Feb 2016

Data-Pop Alliance

New York, New York

- Researched and developed methods for using cell phone call records to predict population figures in West Africa

Online Poker Player

Jan 2005 – Jan 2011

Internet

Remote

- Built \$50 into \$150,000 playing 6-8 tables simultaneously
- Hired to coach players worldwide in poker theory and strategy

SELECTED WRITING, CODE

willwolf.io/machine-learning | Approximate inference, Bayesian methods, graphical models, neural networks, etc.

github.com/cavaunpeu | Implementations of machine learning algorithms

willtravellife.com | Stories from 65+ countries, and a 7,500 kilometer bicycle ride from Turkey to Kyrgyzstan

SELECTED TALKS, TEACHING

NYC Machine Learning | *A Practical Guide to the Open-Source Machine Learning Masters*

Aug 2019

Boston Bayesians | *Minimizing the Negative Log-Likelihood, In English*

Aug 2018

Facebook Developer Circles Casablanca | *You've Been Doing Statistics All Along*

May 2017

Platzi (Bogotá, Colombia) | Taught data science courses in English and Spanish

Aug 2016

LANGUAGES

English (native), **Spanish** (advanced), **French** (advanced), **Russian** (intermediate)