lan Dewancker

2645 Railroad Street apt. 354 - Pittsburgh, PA 15222

Experience

Uber Advanced Technologies Group

Machine Learning Engineer Working on improving actor trajectory prediction as part of Uber's autonomous driving system

SigOpt Inc.

Research Engineer

Lead design and development of an evaluation system for SigOpt's core optimization engine Researched and evaluated ideas from sequential model based optimization literature Developed SigOpt integration examples with machine learning frameworks (scikit-learn, TensorFlow, MLlib)

Yelp Inc.

Data Mining Engineer

Mar 2014–Jul 2015 Lead the engineering efforts deploying spam text classifiers for private messages and general purpose forum Designed features and lead team in developing classifier for automated (bot) account detection Worked to identify users at risk for account take-over and reset their security credentials

École Polytechnique Fédérale de Lausanne

Research Intern Performed data collection using structured light scanner for performance capture project Developed face fitting tool to assist in generating training data for expression models Evaluated fit accuracy of two expression models

Education

University of British Columbia

Master's of Science, Computer Science Courses in machine learning, computer vision, robotics, mechanical engineering (GPA 84/100) Graduate teaching assistant for first year course in discrete math and digital logic Thesis on lifespace tracking with mobile phones for individuals with mobility impairments

University of Waterloo

Bachelor's of Software Engineering, Mathematics / Engineering Graduated with distinction on the dean's honour list (GPA 87/100) Undergraduate research assistant in Electrical & Computer Engineering department Undergraduate teaching assistant for first year calculus and algebra and courses

Technical Articles

Bayesian Optimization for Machine Learning : A Practical Guidebook

A Stratified Analysis of Bayesian Optimization Methods : Poster at ICML 2016 AutoML Workshop Evaluation System for a Bayesian Optimization Service : Poster at ICML 2016 MLSystems Workshop Interactive Pref. Learning of Utilities for Multi-Objective Optimization : Poster at NIPS 2016 FILM Workshop

Other Projects

sublexis: A free tool for improving French, English or Spanish vocabulary. It presents users with chains of flashcards using images taken from film scenes as word context examples (www.sublexis.com)

vizDAT: Open source interactive visualization tool to assist feature engineering and introspection when developing predictive models (github.com/iandewancker/vizdat)

simple-ec2: Lightweight tool to quickly provision and setup small master/worker clusters in AWS. Suitable for prototyping machine learning models and experimenting with distributed optimization

Pittsburgh, PA, USA

Jan 2017–Present

San Francisco, CA, USA

Jul 2015-Dec 2016

San Francisco, CA, USA

Lausanne, Switzerland

May 2011-Aug 2011

Waterloo, ON, Canada 2006-2011

Vancouver, BC, Canada

2011-2014