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github.com/sds-dubois

Education

Stanford University (CA, USA)	2015 - 2017
MS in Computational and Mathematical Engineering, Data Science track	GPA: 4.0
École Polytechnique (Palaiseau, France)	2012 - 2015
Diplôme d'ingénieur (MS) in Computer Science and Applied Mathematics	GPA: 3.9

Work experience

Co-founder & Chief Scientist (Menlo Park, CA, USA)	May 2017 - current
<ul style="list-style-type: none">Co-founded a stealth start-up in the travel industry	
Research Assistant at BMIR, Stanford University (Palo Alto, CA, USA)	Feb 2016 - Apr 2017
<ul style="list-style-type: none">Conducted research on machine learning applications in clinical analysis using electronic health recordsDeveloped transfer learning methods to tackle the problem of scarce ground truth labelsDesigned unsupervised and weakly supervised algorithms to learn effective embeddings of clinical dataPublished work as a workshop at the International Conference on Learning Representations (ICLR)	
Software Engineer Intern at TripAdvisor (Palo Alto, CA, USA)	Jun - Aug 2016
<ul style="list-style-type: none">Built TripAdvisor's travel discovery chatbot from scratch	
Research Visitor at CSAIL, MIT (Cambridge, MA, USA)	Mar - Jul 2015
<ul style="list-style-type: none">Developed Bayesian optimization methods to auto-tune machine learning pipelinesFeatured as one of the "5 Machine Learning Projects You Can No Longer Overlook" in KDnuggets and awarded Outstanding Research Internship by Ecole PolytechniquePublished work at the IEEE Conference on Data Science and Advanced Analytics (DSAA)	

Relevant projects

Multiplayer Snake AI (team of 3)	Oct - Dec 2016
<ul style="list-style-type: none">Implemented agents based on adversarial tree search and reinforcement learning (Q-learning, policy gradients)	
Transfer Learning in Reinforcement Learning (team of 2)	Oct - Dec 2016
<ul style="list-style-type: none">Investigated knowledge transfer between related tasks in Q-learning	
Distributed Lasso in Spark (team of 2)	Apr - Jun 2016
<ul style="list-style-type: none">Designed distributed algorithms for L1-regularized linear regression	

International & leadership experience

Summer internship at ST Microelectronics (Greater Noida, India)	Jul - Aug 2014
Leadership training in the French Army at Régiment d'Infanterie Chars de Marine (Poitiers)	Sep - Apr 2013

Skills

Programming languages	Tools	Foreign languages
Python, R, Ruby, C++, JavaScript, SQL	Git, LaTeX	French (native), English (fluent)