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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
Lycée Hoche (Versailles, France)	2010 - 2012
Intensive undergraduate program in Mathematics and Physics	GPA: 4.0

Work experience

Research Assistant at BMIR, Stanford University (Palo Alto, CA, USA)	Feb 2016 - current
<ul style="list-style-type: none">Developing machine learning methods to support clinical decision makingWorking with large real-world datasets of electronic health recordsAwarded ICME-NVIDIA Grant to work on deep representation learning for clinical data	
Software Engineer Intern at TripAdvisor (Palo Alto, CA, USA)	Jun - Aug 2016
<ul style="list-style-type: none">Developed a chatbot from scratch to search places and plan a tripPrototype outperformed other travel chatbots and will be released to production	
Research Intern at CSAIL, MIT (Cambridge, MA, USA)	Mar - Jul 2015
<ul style="list-style-type: none">Developed Bayesian optimization methods in Python to auto-tune machine learning pipelinesReceived a Research Internship Award from École PolytechniqueFeatured in KDnuggets as one of the <i>5 Machine learning projects you can no longer overlook</i>	

Relevant projects

Distributed linear regression in Spark (team of 2)	Apr - Jun 2016
<ul style="list-style-type: none">Designed distributed algorithms for L1-regularized linear regressionImplemented a novel algorithm in Apache Spark	
Face recognition (team of 2)	Oct - Jan 2015
<ul style="list-style-type: none">Developed a program to identify faces in pictures using machine learning and image analysis	
Smart buildings (team of 6)	Sep - Jun 2014
<ul style="list-style-type: none">Designed a Raspberry Pi platform to manage connected objects with conditional statementsImplemented applications to process sensor data and reduce energy consumption	

International & leadership experience

Summer internship at ST Microelectronics (Greater Noida, India)	Jul - Aug 2014
<ul style="list-style-type: none">In charge of STM's hardware integration for a start-up new home automation product	
Leadership training in the French Army at Régiment d'Infanterie Chars de Marine (Poitiers)	Sep - Apr 2013

Hobbies and interests

Technology enthusiast Enjoy discovering new tools and open source projects Always eager to learn	Workflow optimization Investigate best workflows for programming and project development, for fun and efficiency	Traveling India, Canada, Brazil, Mexico, Africa Sports Swimming, Windsurfing
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Skills

Programming languages Python, R, C++, Java, SQL	Computing TensorFlow, Spark	Foreign languages French (native), English (fluent)
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