DOMINIQUE LOYER
MBA, MASTER OF SCIENCE (MS), PH.D (C)

2, rue des Frênes, Orford (Québec), Canada, J1X 7A9
☎ 873 888-8234

🖳 11005588@hec.ca
🖵 http://sherbrooke.co

ACADEMICS

2017	**Ph.D. – Ph.D in Machine Learning (now)** *Université Laval,* Québec
2016	**M.sc – Master degree in IT management** *Université Laval,* Québec
2015	**MBA – Master in Business Administration (E-commerce)** *Université Laval,* Québec
2005	**Bachelor degree in Finance** *HEC Montréal*, Montréal

DATA SCIENCE AND MACHINE LEARNING SKILLS

DATA SCIENTIST

- Programming in R (R studio EDI) and Python (NumPy, SciPy)
- **Clusterring** with KNN, K-Mean, Artificial neural network algorithms
- **text-mining on** Twitter and Facebook
    - Technology intelligence
    - Sentiments analysis
- **Big Data**
- Hadoop, Spark, NoSqL
- Exploratory data analysise
    - Univariate and multivariate analysis

Supervised learning
- **Decision trees (** CART algorithm, ramdom forests)

Unsupervised learning
- Associations rules
    - Basket analysis
- Version control with **GIT**
- Tableau software and Python (Matplotlib) for data visualization
- **Semantic web (** OWL, RTF, FOAF, DublinCore, etc.) and **knowledge management**
    - **Finished number populating a Wiki on one of my MBA's course**
- **Project management** following PMBOK , **Gantt**
- ANOVA
- Time series analysis
- **MS Excel avanced functions** (**Power Pivot,** solver, pivot tables, etc.)

PROGRAMMING LANGUAGES
- C, JAVA, PhP, Python, R, UnixShell, SQL, SPARQL, JavaScript

EMPLOYMENT HISTORY

President and Data Scientist   (http://sherbrooke.co)

Sherbrooke Informatique (My IT consulting Cie)   Montreal, Sherbrooke
January 2014 until now
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Sherbrooke Informatique has offered   IT consulting services to customers such as :
Canadian Armed Forces, Revenu Québec, BRP (Bombardier recreational products) to
name a fiew.

We can also help you with a genuine business intelligence solution to forecast your
future needs and help you with an insightful predictive modeling.

Our expertise :
- Machine Learning
- Text-mining
- Clustering and random forest
- Deep learning (Big Data)

IT CONSULTANT REVENU QUÉBEC (MANDATE)
JANUARY-MAY 2016

Advancing architecture Revenu Québec to a **service-oriented architecture (SOA)** within
the Directorate General of treatment and technology.

IT CONSULTANT FOR GSOIFC IN KINGSTON, ONT, CANADIAN ARMED FORCES (MANDATE)
JANUARY-MAY 2016

A. Construction and development of explicit knowledge
B. Select technology infrastructure support
C. Strategy facilitation and motivation

Establish a new knowledge management card so the GSOIFC in logistics dimension
may be more equipped to identify key knowledge in logistics processes.
> Enrich the knowledge base with the Semantic Web vocabulary with prefixes and
> predicates (OWL, RTF, FOAF, Dublin Core, etc.).

IT CONSULTANT FOR REVENU QUÉBEC (MANDATE)
MAY -SEPTEMBER 2015
Perform diagnosis of the "**Electronic online services"** within the Directorate General of
treatment and technologies;
The PES is an opportunity to improve and facilitate communication with the agency.
Using Web technologies also facilitates tax tasks of businesses and individuals. Revenu
Québec must also provide via electronic services, an easy and effective access to
quality information. PES should also be used in order to achieve the tax recovery
targets and pursue prevention of tax avoidance efforts.

At Revenu Québec, the rate of electronic filing of tax returns is for the tax year 2014 to 81%, up 2% from the previous year. Ten countries had a higher rate of electronic transmission to 90% in 2009, with Italy and 100% Argentina.

IT consultant for Syntell Inc. In Québec (mandate)
January –May 2015
The main purpose of this mandate was to determine whether the offer of human capital SYNTELL was relevant. In addition:
-Analysis of strategic capabilities SYNTELL;
. Demonstrate how analytics-RH can reduce turnover by 10% to 20%;
. Select 2 or 3 benefits to broadcast on the blog Syntell. The content to be short, relevant and captivating;
. More emphasis on the benefits of analytics in human resources and the cost reduction and risk reduction for businesses;
. Add functionality "in-messaging Product";
. The "benchmarking" or sensitize leaders on the more strategic aspects of the analytical of some of these ratios compared to others that are only descriptive.

College teacher (computer and business courses)

Cégep de Sherbrooke   Sherbrooke
April 2011 – December 2012

Collège Lasalle   Montreal
May 2011 – September 2012

Commission scolaire de la région de Sherbrooke   Sherbrooke
February 2011 – December 2012

Operational Manager of a publicly-financed foster home

CSSS des îles   Magdalen's islands (1500 km from MTL)
February 2007- august 2009
- Manager of the human resources, financial and operational resources

Financial services, Director

National Bank of Canada   Magdalen's islands
2006-2007
- Budget I managed: 12 M$ per year
- Objectives :   2,8 M$ of new sales per year
- Retention of 1200 clients (500 anglophones)

PUBLICATIONS

- **Classical guitar, a complete method, 2010 227 pagesFinished number 1 populating a wiki on one of my MBA's course** LinkedIn posts (**top 1% most viewed, 18th position** on more than **20 000** in 2016) sur **LinkedIn Pulse et** and on my **blog**