**Bolun Xu**

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**PURPOSE**

Applying for Internship or job of Entry level

**Educational Background**

**Lehigh University** 08.2015-01.2018

**M.Eng.** in Industrial & Systems Engr., College of Engr. & Applied Science

**Beihang University** 08.2011-07.2015

**B.E.** in Quality and Reliability Engineering, School of Reliability and Systems Engineering

**Academic Experience**

**Development of Novel Semi-Supervised Classification Methods Using Large-Scale Optimization Techniques (ExxonMobil Mentored Research Project)** 08.2016 – 05.2017

**Advisor:** Papageorgiou, Dimitri J

**Aim:**

To extend existing clustering work to a semi-supervised classification method that is capable of learning the optimal distance/similarity metric directly from training data.

**Duties:**

Building an efficient platform in C++ to achieve the new method with large dataset. The new method with adaptive distance metric has the potential to provide results of better quality than state-of-the-art techniques like Support Vector Machines.

**Prediction of Default of Credit Card Clients (Machine Learning Project)**  03.2016-05.2016

**Advisor:** Katya Scheinberg

**Aim:**

Using financial database of credit card clients to predict whether these clients would default payment in the future

**Duties:**

Took responsibility of model generation based on Logistic Regression (LR) in C++, SVM (with Linear, Polynomial, RBF kernel) in Matlab, ANN (with different hidden layers & learning rate) in SPSS, Decision Tree (C5.0,C&R Tree, CHAID) in SAS and KNN in SPSS.

**Cover Type Prediction Analysis (Data Mining Project)** 02.2016-04.2016

**Advisor:** Michael Magent

**Aim:**

* To predict the survival rate of tree in different types with a large number of environmental properties.

**Duties:**

* Took responsibility of model generation based on SVM (with Linear, Polynomial, RBF kernel) in libSVM.
* Analysis of sensitivity, specificity and other properties of different models.

**Pipe Web Monitor System with Energy Self-sufficiency Based on SCADA and QFD (Undergraduate Innovative Training Program)** 05.2014-04.2015

**Advisor:** Chuanri Li

**Aim:**

* To complete the supervisory control and data acquisition (SCADA) of the large-scale transfusion system
* To optimize the power generation efficiency and store more power for effective use in other fields

**Duties:**

* Refined the water conveyance system generator into the intelligent pipe web monitor terminal, included improving coaxiality and transmission efficiency of the mechanical part
* Realized SCADA network architecture

**Internship Experience**

* **Summer Camp of Chinese Academy of Sciences** 07.2014

Studied in space technology institute

* **Centre Testing International (Shenzhen) Co., Ltd.** 09.2013

Interned in Environmental Laboratory: card mount of test-place inshermal shock test chamber and the set of experiment process & data record

**Other Information**

**Programming Language**: C++, C#, VB, Python

**Software:** Matlab, Ampl, SAS, IBM SPSS, Minitab, Aimms

**Certification**: Six Sigma Green Belt from IISE in 2017