# ANDRÉ SURPRENANT

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## SKILLS

**STATA , R, SQL, MATLAB, JavaScript, Linux, Git**
**PYTHON (tensorFlow, scikit-learn, Pandas, flask)**
**Machine learning, Statistics,**
**Economic Modelling**

## EDUCATION

### BA. Economics (Hounours)
### minor in Mathematics

**McGill University**

June 2019 Montréal

**Relevent Coursework**

- Machine Learning
- Econometrics
- Matrix Numerical Analysis
- Computer Science

## EXPERIENCE

### Credit Operations Specialist

**Rogers Communications**

June 2020 – present Montréal (Remote)

- Bilingual (French and English)
- Reduce involuntary CHURN by negotiating settlements and retention offers.
- Analyse customer account information and risk profiles in order to determine suitable terms for payment arrangements

### Accounts Receivable Advisor

**SinglePoint International**

Jul 2019 – June 2020 Montréal

- Bilingual (French and English) B2B correspondence
- Maintain records by microfilming invoices, debits, and credits.
- Provide timely and transparent invoicing and ensure customer satisfaction.

## PROJECTS

### Time Series Forecasting with CNN

- The goal of this project was to determine the viability of Convulutional Neural Networks for Multivariate time series forecasting.
- We compared the predictions of our model against a simple Feedforward Neural Network to see if there was any benefit to using CNN as theorized.
- Supervised learning on both simulated and real world data.

### Chilean Income Inequality

- Tracked the dynamics of Chilean income inequality from 1990 to 2015
- Complied data from the Luxembourg Income Study (LIS) and formatted it according to conventions from recent monograph literature.

### Banknote Authentication App

- Flask web application with Postgresql database
- The app implements a random forest classifier to predict banknote authenticity given the statistical properties for Wavelet Transformed images of banknotes.

### Telecom Churn Prediction

- Predicting Churn from telecom data with 80% accuracy.
- The Project analyzes the data set to determine the most important features and compares the predictions of a Logistic Regression against a Support Vector Machine.

## LANGUAGES

- English
- French