

# Minnie Nguyen

Data Scientist · Math & Computer Science · Montreal, Canada

📞 438-764-0121 | ✉ minniexnguyen@gmail.com | 🌐 <https://nminnie.github.io> | 🐙 nminnie | 🌐 nminnie

## Work Experience

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### Dynamicly Inc.

Montreal, Canada

JUNIOR DATA SCIENTIST

Nov 2019 - Present

DATA SCIENCE INTERN

Jun - Oct 2019

- Initiated a 3-person project to build an in-house NLP model to power conversational intelligence, which increased accuracy by 29% and eliminated the need to outsource.
- Worked closely with backend developers to deploy the model into production as a Python server, with over 200 users.
- Collaborated with the product manager to enforce client requirements and wrote unit tests using PyTest to enforce branch coverage.
- Created analytics dashboards pulling data from production to assess the model's performance and gain user insights.

### McGill University

Montreal, Canada

STUDENT SOFTWARE DEVELOPER

May - Aug 2018

- Implemented 8 new functionalities for a web-based image classification software used by musicologists at McGill University, using JavaScript and Django.
- Analyzed runtime performance to find bottlenecks. Optimized the performance of certain functionalities by up to 90%.
- Presented about the software and its advancements at multiple workshops at McGill University.

## Projects

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For more projects, visit <https://nminnie.github.io>

### Time series Analysis & Price Forecasting (StatsModel, Pandas, NumPy, Matplotlib)

- Trained an ARIMA time series model that analyzes the trends and seasonality of avocado prices in the last 5 years in the US and predicts future prices for the next 5 years with a low RMSE of \$0.127.

### Book Recommendation System (Scikit-Learn, Pandas, NumPy)

- Trained a kNN model that uses collaborative filtering to recommend the top-n most similar books based on 6 million user ratings.

### Movie Reviews Sentiment Analysis (Scikit-Learn, NLTK, Pandas)

- Trained an NB-SVM model that uses bag-of-bigrams to classify the sentiment of movie reviews with 91.9% accuracy.

### Bank SQL Database (PostgreSQL, pgAdmin)

- Designed and created a relational database for a banking institution in PostgreSQL, which models entities (employees, clients, transactions, loans, etc.) and their relationships.

## Skills

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#### Programming

Python · SQL · Git · JavaScript · Java

#### Machine Learning

Python modules (Scikit-Learn, Pandas, NumPy) · Jupyter Notebook · NLP

#### Analytics

Data Mining · Data Visualization (Power BI, Matplotlib)

## Education

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### McGill University

Montreal, Canada

B.Sc. MATH & COMPUTER SCIENCE, Average: A

Sep 2015 - May 2019

- Awards: Major Entrance Scholarship, Tomlinson Engagement Award for Mentoring (4-time recipient)
- Courses: Applied Machine Learning, Statistics, Probability, Stochastic Processes, Software Design, Database Systems, Algorithms & Data Structures