Patrick Iskandar

patrickiskandar@gmail.com

(203) 554-6812

www.linkedin.com/in/patrick-iskandar

I am a recent graduate from McGill University, with a BA in computer science and a minor in political science. CS focus on statistical programing, Machine Learning, and Database management. I have a robust Mathematics and Statistics proficiency and work well in collaborative environments.

Python – Java - JavaScript – Dynamic Programing - Supervised Learning - Neural Networks – PostgreSQL – Jupyter Notebook - Mathematics – Statistics - Algorithms – Cloud Computing – Image Recognition - Excel

Education

McGill University – Faculty of Arts, Montreal, Canada **2017-2021**
Bachelor of Arts (B.A.) Major in Computer Science - Minor in Political Science

Relevant Coursework

- **Comp 421 - Database Systems**
  - Created and analyzed conceptual designs of relational databases
  - Created and implemented various databases using PostgreSQL
  - Performed query execution to carry out the extraction, manipulation, and updating of data within databases using Java Database Connectivity
  - Created application programs for various databases using both Java and Python
- **Comp 551 – Applied Machine Learning**
  - Built neural networks to perform supervised learning on large sets of data
  - Implemented various types of regression, classification, and optimization algorithms to reduce error and loss of accuracy
  - Performed regression on COVID-19 data to predict hospitalization cases
  - Visualized Google search frequency of the most common symptoms in the US
  - Developed an image recognition model to identify handwritten digits in a digits dataset

Greenwich High School, Greenwich, CT, USA **2013 – 2017**
High School Diploma

- AP Scholar with Distinction Award (2016 and 2017)
- National AP Scholar Award (2017)
- AP International Diploma (2017)
- National Merit Commended Scholar (2016)

Projects

Handwritten Digits Recognition

- Implemented a deep neural network model, more specifically a Convolutional Neural Network (CNN), for a multi-label classification task. Given an MNIST dataset consisting of images which contain between 1 to 5 handwritten digits, the model was trained using automatic differentiation to recognize the depicted digits. The model yielded an accuracy of approximately 99.62%

Hotel Database and Reservation System Using Python and PostgreSQL

- Created a relational database for a hotel, populating the database with dummy data and implementing a user-friendly application program for the database, allowing the teller of the hotel to interact with the U/I based on what tasks he or she must complete according to the guests' requests. Also includes procedures to identify most profitable guests, as well as visualization of relevant information.

Visualizing COVID-19 Symptom Google Search Trends

- Imported, cleaned, and visualized the Google search frequency of the most popular symptoms throughout the US over time using various Python libraries, including pandas, numpy, and plotly. Visualization includes a time slider to observe week-by-week changes for all of 2020.

NBA Shot Data Visualization

- Created a Python program that prompts user for a name of an NBA player and a season (after 1996), and returns a scatter plot visualization of where every shot by that player for that season was taken from on the court, as well as whether the shot went in or not
- Data was scraped from basketball-reference.com using Selenium, and data extraction and visualization was done using pandas and seaborn Python libraries

---

Work History:

- Zaniac: Taught Math and Java
- Brain Boost Learning: Taught Math and computer programming
- Greenwich Country Club: Worked as Groundskeeper
- Omnivore: Worked as Dishwasher, helped with food prep

SKILLS & LANGUAGES

Fluent English, conversational Spanish, basic French, basic spoken Levantine Arabic.

Computer Skills: Java, Python, PostgreSQL, C, HTML, JavaScript, OCaml, MIPS Assembly Code, Microsoft Office