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## SUMMARY

Data scientist with a background utilizing Python, Azure, and Jupyter for the entire data analysis workflow including data wrangling, data storytelling, data visualization, exploratory data analysis, and applying machine learning models to big data. Strong academic background in engineering, able to think critically and solve problems in creative ways.

## SKILLS

**PROGRAMMING LANGUAGES:** Python, Java, C++, MATLAB, SQL

**LIBRARIES AND FRAMEWORKS:** Scikit-learn, TensorFlow 2.0, Pandas, NumPy, Keras, Nltk

**PREDICTIVE MODELING:** Linear/Logistic Regression, Classification, Clustering, Random Forest

**MACHINE LEARNING:** Deep Learning, CNNs, NLP, Computer Vision

**DATA VISUALIZATION:** Jupyter, Matplotlib, Seaborn, Tableau, Power BI

**VERSION CONTROL:** Git, Github

**CLOUD TECHNOLOGY:** Microsoft Azure, AWS

**LANGUAGES:** English, French, Spanish

## EXPERIENCE

**Springboard**, *Data Science Fellow*, Toronto, ON

Nov. 2020 - May 2021

- 500+ hours of hands-on course material, with 1:1 industry expert mentor oversight
- Mastered skills in Python, SQL, data wrangling, data visualization, hypothesis testing, and machine learning

**ECHOTape**, *Product Development Coordinator*, Montreal, QC

Sept. 2018 - Aug. 2019

- Completed statistical analysis and built confidence intervals for variables such as adhesion and water resistance
- Created visualizations and presented to leading manufacturers world-wide
- Assisted with a multi-million dollar deal with one of the leading building materials manufacturers in America

**Canadian Nuclear Laboratories**, *Materials Engineer Intern*, Deep River, ON

May 2017 - Sept. 2017

- Worked with a project lead to investigate the effects of surface boiling conditions on the strength of various materials, primarily Fe-Ni-Cr alloys
- Obtained and analyzed temperature, heat flux, current intensity, and electric potential data using sensors and Microsoft Excel
- Pre-processed raw data to prepare for analysis including cleaning and merging data from multiple sources, as well as understanding overall data quality
- Conducted exploratory and statistical analysis of data

**Spectrum Brands**, *Customer Service Representative*, Mississauga, ON

June 2015 - Sept. 2016

- Developed important communication and presentation skills
- Ensured the best possible customer experience through phone calls and emails
- Acquired knowledge of both SAP and onBase systems and considerably advanced my Microsoft Excel skills

## PROJECTS

Predicting Lung and Heart Disease from Chest X-Rays

Feb. 2021 - May 2021

- Tools: Microsoft Azure, TensorFlow, Keras, Computer Vision
- Used the NIH chest X-ray dataset to create a binary classification model to detect disease presence
- Prediction accuracy > 67%

Maximizing Tweet Outreach and Predicting Tweet Performance

Dec. 2020 - Mar. 2021

- Tools: Tweepy, Nltk, Pandas, Scikit-learn, Seaborn, Jupyter
- Used the Twitter API to pull 33 000 tweets from 10 musical artist accounts
- Performed exploratory data analysis and hypothesis testing to determine the optimal day of the week and time of the day to tweet for maximum outreach
- Built a predictive tweet performance model using NLP and scikit-learn packages

## EDUCATION

**McGill University**

B. Eng Chemical Engineering

Sept. 2014 - Apr. 2018