Veraj Paruthi

veraj.paruthi@uwaterloo.ca | 647-895-7366

GitHub: vparuthi
LinkedIn: verajparuthi
Website: verajparuthi.me

SKILLS

LANGUAGES
Python • Java • JS • C++

DATA SCIENCE
sklearn • Pandas • Numpy
Keras • multiprocessing
NLTK • spaCy • matplotlib

MISCELLANEOUS
Flask • HTML • CSS
JQuery • Bootstrap 4

EXPERIENCE

CIBC DATA STUDIO | Data Scientist
May 2019 – August 2019 | Waterloo, ON

- Created a **NMF** model to classify survey responses into 16 distinct complaint categories with an accuracy of 90%
- Preprocessed **40,000 unstructured** text data points through translation, stemming, lemmatization, POS tagging, and acronym replacement
- Utilized 25,000 Instagram and Weibo posts related to Canada Goose and helped investors predict trends in upcoming quarterly earning releases
- Designed Google Data Studio dashboards that were fed using a PostgreSQL DB - enabling HR to get comprehensive breakdowns

ROGERS | Android Developer
September 2018 – December 2018 | Toronto, ON

- Utilized Java across 50 Android applications - ranging from KiSS 92.5 to 680 News to Today's Parent MealTime
- Implemented deep link notifications using Urban Airship and **boosted user retention by 15** %
- Created an analytic feed using Adobe Analytics - tracking user clicks, time spent watching videos, and articles read
- Worked with 3 developers and coordinated efforts using Git and Jira in an agile work environment

BANK OF MONTREAL | IT Operations Analyst
Jan 2018 – April 2018 | Toronto, ON

- Took the initiative to update an inefficient automation process in VBA - decreasing intake request time by 20%
- Evaluated all technical aspects of the systems, processes, controls, and volumes in order to optimize IT performance
- Provided consulting and costing in order to deliver technology solutions for BMO

PROJECTS

MUSIC PREDICTOR | A web app | Link: Click Me! | Python, JS, Flask, sklearn, GCP, Spotify API

- Created a Flask web app that predicts a user's preferred genre of music using an **multi-label kNN** model
- Using predicted results a Flask endpoint calls Spotify's API to get the top playlists for each genre
- Developed using an **AMD** format resulting in a highly modular codebase
- Deployed application on **GCP's Compute Engine**

MY HEALTH | An Alexa Skill | Python, sklearn, AWS, Node.js

- **Won best machine learning** and heath care hack at **Hack Princeton** 2018
- Utilized AWS, an LDA machine learning algorithm, and 1,000 data points to detect if users were developing Alzheimer's
- Connected Alexa to an S3 Bucket using a custom API made in API Gateway
- Used Python to examine frequency/duration of pauses, repetition of words, slurring, and the use of filler words

TWITTER SENTIMENT STOCK PREDICTION | Python | Twitter API, Google API, Keras

- Employed a **mutli-layer LSTM** model to predict stock prices based on a company's past data and Twitter sentiment
- Curated a custom tweet dataset using Twitter's API and GCP's NLP API
- Trained the model using adjusted close, high, low, high-low percent change, and tweet sentiment values

WEATHERTRAC | An Android App | Java, XML

- Created an app that displays the weather for a provided location using JSON from the OpenWeatherMap API
- Implemented various animations to improve the user experience

EDUCATION

UNIVERSITY OF WATERLOO | BASc Computer Engineering
2A Dean's Honour List | Expected Graduation: 2022