Alex Nguyen

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Skills

- **Languages**: Python, R, SQL, SAS, Excel/VBA
- **Associated Libraries**: pandas, numpy, scikit-learn, Keras, matplotlib, dplyr, caret, flask

Experience

- **Strata Decision Technology** — Chicago, CA
  Data Science Intern — *May 2019 - Aug. 2019*
  - Wrote SQL queries gathering hospital encounter data from across 30 national health systems, and cleaned the raw data for further analysis.
  - Employed text classification models to classify job categories from raw payroll data to gauge wage differences between different hospitals.
  - Presented an analysis detailing differences in costs between pediatric and general hospitals for appendectomy procedures.
- **Long Beach Transit** — Long Beach, CA
  Risk & Safety Intern — *Dec. 2017 - May 2019*
  - Created the quarterly KPI for the risk department recapping bus accident trends and statistics, which were presented to the executive leadership.
  - Implemented Excel VBA applications to automate and streamline various accident related reports for future ease and use.
  - Participated and assisted in company wide safety bus accident prevention and safety campaigns based on accident trends.
- **CSU Long Beach Math Department** — Long Beach, CA
  Student Assistant — *Dec. 2018 - May 2019*
  - Develop Python program to simulate random class schedules and observe whether proposed math schedules will meet the demand for all students needing to take math classes.

Projects

- **Identification of Risk Factors and Likelihood of Benefit from Chemotherapy (Thesis)**
  - Utilized high dimensional gene expression and survival data from lung cancer patients to create a clinical support classifier using Cox regression models identifying those patients that are likely to benefit from chemotherapy.
- **Recipe Finder**
  - Parsed through recipe text data to convert recipes into a bag of words model.
  - Implemented a recommender system to find similar ingredients based on an inputed list of ingredients.
- **ARAM Match Predictor**
  - Wrote a script to scrape match data from the Riot API.
  - Implemented logistic regression to predict match results based the characters present on each team, as well as ranking individual characters from best to worst.
- **Classifying Plankton with Convolutional Neural Networks Using Pytorch**
  - Developed and trained convolutional neural networks to classify plankton species from image dataset.
  - Implemented data augmentation techniques and tuned network depth to improve validation accuracy.

Education

- **California State University, Long Beach** — Long Beach, CA
  Master of Science in Applied Statistics; GPA: 4.00 — *Jan. 2017 – Dec. 2019*
- **University of California, Santa Barbara** — Santa Barbara
  Bachelor of Science in Actuarial Science; GPA: 3.55 — *Sep. 2011 – Dec. 2016*