

Ricardo AGUILAR

Seattle WA

leegare@gmail.com | [LinkedIn](#) | [GitHub](#) | [Kaggle](#)

Work Experience

Data Science Expert

Thinkful | Since May. 2019 | USA

- Mentor junior data scientists in Python and Data Analysis fundamentals.
- Work with Program Managers to provide detailed feedback on student success, including struggles or technical mastery issues.

Technical Support Analyst

Guestware | Jan. 2013 to Jan. 2018 | USA

- Customized reports addressed to clients in SQL to produce insightful data analysis and visualizations.
- Restructured the Knowledge Base which reduced our monthly issues-resolution time by **60%**.
- Minimized the volume of issues reported by customers by **30%** after designing an alerting system for monitoring performance issues in the network, database, and server.

R&D Image Processing Intern

Océ PLT Canon | Apr. to Nov. 2011 | France

- Researched and critiqued state-of-the-art robust image feature engineering methodologies.
- Developed an image recognition algorithm in MatLab to detect the presence of logos in documents.

R&D Signal Processing Developer

Hôpital Broussais | May to Sept. 2009 | France

- Devised an algorithm to classify esophageal reflux events in patients based on the event's speed captured by telemetry in MatLab.

Skills

Languages: C++, Google Cloud, MatLAB, MS Excel, NoSQL, PowerShell, Python, SQL, Tableau, Zendesk

Packages: Flask, Keras, MongoDB, NLTK, Numpy, Pandas, PySpark, SciPy, SkLearn, TensorFlow

Technical: Data mining, Data modeling, ETL, Machine Learning, Natural Language Processing

Certifications: CISCO-CCNA, MCDST

Linguistics: **English:** Fluent, **French:** Fluent, **Spanish:** Native

Relevant Projects

Book-Cover Based Recommender System

Since May 2019

Scraped 10GB of book cover images and clustered them by similarity using a trained neural network.

- Implementation using Keras in Spark and Google cloud.

Classifying insurance claims with NLP techniques

Feb. 2019 (2 weeks)

NLP analysis and classification from a highly unbalanced dataset of 1000 unstructured text claims.

- Stemmed and used 2-grams to build a feature set of most frequent text features.
- Text analysis and exploration of different classification algorithms to yield the highest score possible.

Predicting Stock Price Returns

Oct. to Dec. 2018

Used news and sentiment analytics for predictive modeling. (A [Kaggle competition](#): 16th percentile)

- Reduced the number of features by 51 by analyzing the importance of every feature in terms of performance scores defined by a set of standard supervised learning methods.
- Improved model's performance by **10%** using ensemble methods.

Analyzing Airbnb Users Preference on Listings

Aug. to Sept. 2018

Ranked the qualitative and location features of Airbnb listings in order of importance in determining customer conversion.

- Corrected **90%** of listings with mislabeled zip codes using Local Outlier Factor paired with KNN clustering.

Predicting Bike Rental Demand

June to Aug. 2018

Devised a time series model to forecast the demand in rental bikes based on time and weather.

- Built a statistical model to understand the relationship between the users' behaviors in terms of rental regularity and a weather metric derived from regression tools. The prediction improved by **5%** in accuracy.

Education

Data Science Fellow

K2 Data Science | Jan. 2018 to Feb 2019 | USA

Comprehensive Python-based and mentor-led data science immersive program diving into exploratory data analysis and visualization, data mining, predictive modeling and data engineering.

M.Sc. in Signal, Image and Sound Processing

UPMC Paris VI | Sept. 2009 to Apr. 2011 | France

B.S. in Electronics and Communications Engineering

ITESM | Sept. 2001 to June 2006 | Mexico