PATRICK DE GUZMAN

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EDUCATION

UCLA, Anderson School of Management   **Expected December 2020**
Master of Science in Business Analytics (MSBA)
- Machine Learning, R Programming, SQL & Data Management, Optimization, Business for Analytics
- Prescriptive Models, Customer Analytics, Competitive Analytics, Operations Analytics

Santa Clara University   **June 2018**
Bachelor of Science in Commerce, Accounting & Information Systems   GPA: 3.86

Udacity   **June 2019 | Oct 2019**
Intro to Machine Learning Nanodegree | Data Scientist Nanodegree

TECHNICAL SKILLS

Languages: Python, SQL, R, Bash, HTML, CSS
Machine Learning: Deep Learning (Keras & PyTorch), Recommendations, Gradient Boosting, Random Forest, SVM
Domain Knowledge: Spark (PySpark), Pipelines, Data Mining, Clustering, A/B & Hypothesis Testing, Text Mining (nltk)
Visualizations: PowerBI, Adobe Analytics, Matplotlib, Seaborn, Plotly, ggplot2, Tableau, Visual Studio
Other: Distributed Processing, AWS, Modular Coding, Version Control, Excel, PowerPoint, IT Auditing, CISA

DATA SCIENCE & ANALYTICS PROJECTS

PySpark: Predicting Customer Churn   **Distributed Processing, Cloud Computing**
- Analyzed, cleaned, and prototyped a machine learning algorithm on a truncated user log dataset using PySpark locally
- Used Spark and AWS EMR to run this workflow on a 12GB dataset on four machines, reaching a test F-1 Score of .88

Computer Vision Application: Build-Your-Own CNN   **Deep Learning, Computer Vision**
- Command-line application to train and classify ImageNet Convolutional Neural Network on any set of images
- Vectorizes, scales, and resizes images for training and prediction using PyTorch framework

Webapp for Disaster Message Classifier   **Text Preprocessing, Text Classification**
- Text preprocessing pipeline using nltk & Sklearn implemented in Flask webapp to classify text messages

Predicting Credit Card Fraud (Kaggle)   **Classification, Feature Engineering**
- XGBoost tuned with hyperopt to predict whether transaction was fraudulent with .90 testing ROC AUC
- Dask to manipulate large dataset in chunks and featuretools to perform automated feature engineering

Market Segmentation Clustering Analysis   **Clustering, Dimensionality Reduction**
- Principal component analysis and clustering to identify main customer base using customer and demographic data

Recommendation Engine for IBM Watson Articles   **Matrix Factorization, Recommendation Systems**
- Combined rank-based, collaborative, and content-based filtering to create a recommendation system for articles
- Manually created a matrix factorization algorithm (based on FunkSVD) to predict whether users will read an article

PROFESSIONAL EXPERIENCE

PwC (PricewaterhouseCoopers)   **San Francisco, CA**
Risk Assurance Associate – Internal Audit & Process Assurance   **August 2018 – May 2019**
- Developed and deployed PowerBI data pipeline and dashboard to summarize project data in interactive interface
- Tested over 100 key controls and reports containing financially relevant data through statistical sampling and code review (in SQL, Python, Bash, ABAP, and Perl) to reduce risk of financial misrepresentation
- Established automated testing procedures with automation tool to reduce team workload by about 200 hours per year
- Conducted face-to-face meetings with experts to identify, understand and evaluate risks within IT infrastructures
- Managed team members in Kolkata & Manila to reduce project cost by coordinating 1,500+ hours of testing

PwC (PricewaterhouseCoopers)   **San Jose, CA**
Risk Assurance Intern   **June 2017 – August 2017**
- Tested and documented clients' controls related to access and restrictions for IT controls
- Reconciled and tested key reports for use in substantive controls testing for risky financial statement line items
- Executed detailed testing on key IT general controls to provide reasonable assurance over control effectiveness

LEADERSHIP

UCLA MSBA Class of 2020 – *Vice President*   **Oct 2019 – Present**
- Represent the interests of the cohort while supporting the rest of the leadership team to accomplish their goals

SCU Hipnotik Competitive Dance Team – *Captain*   **June 2017 – May 2018**
- Choreographed, organized rehearsals, planned team schedule, and ultimately beat best team record in competition

SCU Dept. of Theatre & Dance, Choreographer's Gallery – *Lead Choreographer*   **Sept 2017 – Dec 2018**
- Choreographed a five-minute finale of an annual department show by working with a group of 14 dancers