MINH HOANG

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SUMMARY

Highly technical scientist driven by curiosity with extensive domain knowledge ranging from in-vitro diagnostics (in both clinical/research settings) to the professional sports industry, mainly the NBA, which has made me comfortable with handling and leveraging data in different fields. Excited to learn new ways to take advantage of the continuing rapid growth of high performance computing to enable new applications of machine learning.

SKILLS

PYTHON: NumPy, pandas, SciPy, scikit-learn, Tensorflow, Keras, Selenium, matplotlib, seaborn, Jupyter Notebook
R: bioconductor, ggplot2, plyr, shiny
LINUX: bash, vim
GIT: GitHub
CLOUD COMPUTING: AWS, gcloud
OTHER: C++, OpenCV, CUDA, cuDNN, SQL

PROJECTS

NBA Lineup Optimizer for DFS   Oct 2017
- Developed an application that optimizes NBA lineups for daily fantasy sports by implementing the Knapsack algorithm using Python.
- The app allows the user to choose players for the best optimal fantasy point projection while staying at/below the salary cap.

Game of Thrones ConvNet   Sep 2017
- Built a convolutional neural network with Keras to identify images with the Game of Thrones-related content for avoiding spoilers on social media.
- Trained the model on an EC2 instance from Amazon Web Services with images scraped from Instagram's API.
- Achieved 81% accuracy of identifying the Game of Thrones-related content.

EXPERIENCE

Sportradar, *NBA Scout*, Oakland, CA   Oct 2016 - Current
- Attend Golden State Warrior home games. (Season credentialed for 2016-2017, 2017-2018)
- Track player movement data and statistics using Scouting Application developed by Sportradar.
- Maintain a scout rating of 4.9 out of 5.0, measured by quality and accuracy of statistical analysis.

Roche Molecular Systems, *Scientist II, Clinical Operations*, Pleasanton, CA   May 2016 - May 2017
- Performed on-site clinical studies for testing instrument/assay performance validation, optimization, and/or comparison, while strictly following study protocols/testing practices for FDA submission
- Collaborated with System Support Engineers and Field Application Engineers to conduct official operator training at external clinical sites as an expert on the cobas 6800/8800 fully automated system.
- Developed Zika PCR assay and approved by FDA in 6 weeks, which became the primary assay used to screen blood donations for Zika across the U.S.

Golden State Warriors, *Head Statistician*, Santa Cruz, CA   Nov 2015 - Apr 2017
- Tracked live game statistics using NBA IDS Platform for the Golden State Warriors' Developmental League Affiliate team.
- Compiled box scores, play-by-plays, and shot charts for media/coaching staff.
- Recognized by the NBA for back to back seasons (14-15, 15-16) of 100% accuracy of statistics.

Roche Molecular Systems, *Scientist I, Research (Nucleic Acid Purification/qPCR)*, Pleasanton, CA   Nov 2014 - Apr 2016
- Designed and performed experiments for the optimization of new applications and protocols for automated nucleic acid purification using the Roche MagNA Pure 96 platform.
- Analyzed experimental results and construct effective data graphics for team meetings and presentations for business groups.
- Developed automated extraction of Cell Free DNA on the MagNA Pure 96 for non-invasive prenatal testing/liquid biopsy, and Genomics/Oncology Co-Dx qPCR assays in collaboration with Genentech.

EDUCATION

UCLA, B.Sc. Biology   2012

Udacity, Machine Learning Engineer Nanodegree   2017

John Hopkins University, Data Science Specialization   2016