Guanhua (Victor) Huang

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SUMMARY

Highly strategic Business and Data Analyst and MSBA (Business Analytics) candidate at UCLA Anderson (expected graduate December 2018). With over 3 years of data analytics experience in academia as undergraduate and graduate researcher and half year analyst experience in industry, I am eager to transform my technical skills to practical business applications.

Data Analytics: Python (NumPy, Pandas, Scikit-learn, TensorFlow), R, SQL, MongoDB, Gurobi, CPLEX.
Programming Language: Python, JavaScript, HTML, CSS, Java, Scala, MATLAB, Julia, C++.
Computer Science: Machine Learning (supervised & unsupervised learning), Database Management, Data structure and Algorithms.
Business: Microsoft Excel, Microsoft PowerPoint, Business Analysis, Management, Marketing.
Related Courses: Probability and Statistics, Linear Models, Numerical Methods, Numerical Analysis.

PROFESSIONAL EXPERIENCE

Los Angeles Capital Group ***Los Angeles, CA***
Research Analyst 06/2018 – now

- Used big data (more than 3 TB) from OneTick and MSCI to calculate risk exposures, bid-ask spread and volume etc.
- Developed a dashboard, written in Python and JavaScript, to display real time news' impact on stocks' price.
- Used Q-learning and Mix Integer Programming to optimize stock portfolios based on daily equity data.
- Led a group of four people, monitored the project progress and reported to the supervisor twice a week.

UCLA Anderson School of Management ***Los Angeles, CA***
Graduate Researcher 05/2018 - 08/2018

- Developed an R package to perform constrained and unconstrained tree model optimization. The package intends to solve large scale mixed integer optimization with heuristic, Benders decomposition and split generation of constraints algorithms.
- Implemented parallel computing and simulated annealing to accelerate computing efficiency.

UCLA Chemistry Department ***Los Angeles, CA***
Graduate Researcher 09/2016 - 06/2017

- Led a team of undergraduate students to accomplish a ligand screening project. Use Shell scripts to clean and extract ~10GB data. Applied statistical models to validate several chemical scenarios.
- Conducted quantum mechanics research on supercomputer. Wrote Python scripts to submit calculations and analyze results.

EDUCATION

UCLA ANDERSON SCHOOL OF MANAGEMENT ***Los Angeles, CA***
Master of Science in Business Analytics (MSBA) 12/2018

University of Pittsburgh ***Pittsburgh, PA***
B.A. Chemistry/Math 5/2016
Graduate with Magna Cum Laude, Excellent in Chemistry Fellowship, Member of Delta Epsilon Iota Academic Honor Society, Dean's List.

PROJECT

- ***CPC-Amazon:***
  - Cleaned ~10GB data by Scala and R, imported all the data to MongoDB database.
  - Applied logistic regression and time analysis to analyze correlation between and inside each data groups.
  - Used Random Forest and SVM models to help CPC seller to deploy personalized advertising.

- ***BCG Data Challenge:***
  - Collected and processed online movie data. Implemented natural language processing algorithms to conduct sentimental analysis. Optimized a strategy for investors to select most potentially successful movies.
  - Presented the final results to pitch real clients at BCG Los Angeles office.

HIGHLIGHT

- Data Modeling, Data Mining/Data Warehouse
- Fluent in Mandarin and English
- Stock trading for 3 years. Portfolio return was 52%.
- CFA Level II Candidate, CMT Level II Candidate