Chris Meade

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EDUCATION

Master of Applied Statistics **Expected 2019**
UCLA • Los Angeles, CA • 4.0 GPA

B.S. Mathematics, B.A. German **June 2017**
UC Santa Barbara • Santa Barbara, CA • Honors at Graduation

PROFESSIONAL EXPERIENCE

Data Science Intern
The Wine Group • Ripon, CA **June 2018— Sep 2018**
• Developed an automatic sales forecasting pipeline in R using a novel ensemble technique, increasing forecast accuracy by greater than 15% over existing methodology
• Created a Shiny Dashboard to integrate with sales history and forecasts to facilitate data driven production planning
• Automated several weekly reporting tasks with R, saving around 10 man hours of work weekly

Data Science Intern
City of Los Angeles • Los Angeles, CA **Sep 2017— Jan 2018**
• Gathered, cleaned, and analyzed city data from several disparate sources using SQL, R, and dplyr
• Developed predictive models to predict if a rental tenant will be in danger of eviction using machine learning algorithms and survival analysis methodologies
• Created a Shiny web application to visualize results of my analysis and communicate findings to city stakeholders

Data Support Team Intern
National Center for Ecological Analysis and Synthesis • Santa Barbara, CA **Aug 2016—Jan 2017**
• Gained expertise in data cleaning and management using R and associated packages (dplyr, tidyr, etc.)
• Assisted professors and researchers with data warehousing and analysis in order to facilitate open and reproducible science

PROJECTS

Song Release Year Prediction
• Developed a methodology to predict which year a song was released based on 90 real valued, continuous descriptors
• Compared performance of several popular machine learning algorithms such as Random Forest, XGBoost, and a deep neural network
• Gained experience working with a massive dataset and the tools and techniques required (parallelization, PCA, t-SNE)

Monte Carlo Methods for Supply Chain Optimization
• Designed an algorithm to minimize supply chain costs using Monte Carlo Simulation
• Utilized the Inverse CDF method and nonparametric regression to sample data from an unknown probability distribution
• Results from this paper are widely applicable to a number of industries and can greatly reduce business costs

Forecasting Atmospheric CO2 with ARIMA Models
• Implemented a autoregressive integrated moving average (ARIMA) model to forecast atmospheric CO2 years into the future
• Gained expertise with the Box-Jenkins methodology for time series analysis

Diagnosing Diabetes with Machine Learning
• Compared performance of Random Forest, Support Vector Machine, and Neural Network in diagnosing diabetes in a patient
• Used data imputation techniques to deal with high frequency of missing values

SKILLS

Software
R, Python (pandas, numpy, scikit-learn), Tensorflow, C++, SQL, Git, Jupyter

Relevant Coursework
Machine Learning, Advanced Statistical Modeling, Data Mining, Time Series Analysis, Design of Experiments, Applied Regression Analysis, Computational Statistics, Computer Programming, Statistical Programming, Mathematical Statistics