Min Gu (Min) Jo

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SUMMARY

Software/Data Engineer specialized in design, architecture, and development of data pipeline along with machine learning analytical process, and web application development

EDUCATION

University of California, Berkeley
- ***B.A. in Computer Science, Statistics, and Economics***
- **Cumulative GPA: 3.42/4.00**

Relevant Coursework: Machine Learning • Software Engineering • Statistical Inference & Computing • Artificial Intelligence • Linear Modeling • Database • Computer Architecture • Computer Network

SKILLS

Programming Languages
- Python, Java, R, SQL, Ruby, C

Framework, Library, Database, Platform
- Spark, Django, TensorFlow, ElasticSearch, AWS EMR, Airflow, PostgreSQL, Amazon Redshift

PROFESSIONAL EXPERIENCE

June 2016 - Present
Berkeley, CA

LeadGenius
Data Engineer
- Build the graphical database of U.S. companies for keyword clustering and recommender system.
- Implemented the ETL pipeline of U.S. companies and professionals data from a variety of sources by scheduling parallel process and provisioning clusters.
- Managed Django REST API to provide distributed search feature on the company database.

Software Engineer Intern
- Deployed a Flask web app which automates labeling of B2B sales outreach email responses using a Recurrent Neural Network model with LSTM architecture built with Deep Learning lib, TensorFlow
- Built a Back-End system which automatically notifies clients of new positive outreach responses
- Implemented an automatic migration of all labeled email threads from Nylas to Postgres database
- Predicted the open rate of outreach emails based on subject-line contents using multivariate linear regression

January 2016-December 2017
Berkeley, CA

Berkeley Institute of Data Science | OskiLab
Undergraduate Researcher
- Detected randomly positioned article texts in Bon Appetit magazines using Keras
- Build sentiment analysis model to classify user reviews using the Bag of Words model

RESEARCH/PROJECT EXPERIENCE

Spring 2016

Kaggle Challenge: Rossmann Drugstore Store Sales Prediction
- Used 3 different machine learning algorithms to forecast drugstore daily sales: multivariate linear regression, Random Forest regression, and Gradient Boosting with regression trees

Fall 2015

Detection of Activated Brain Regions Under Mixed Gamble Task (In-class Project)
- Investigated the relationship between brain activity and behavior of the subjects towards the 50/50 gambling situations using a whole-brain robust regression analysis
- Preprocessed and analyzed fMRI image voxels to identify active regions of the participants' brains

Fall 2015

Kaggle Challenge: Bag of Words Meets Bags of Popcorn
- Applied text analysis(NLP) methods of TFIDF vectorizer and Google's word2vec on iMDb movie reviews to perform sentiment analysis (96% accuracy | top 11th percentile when submitted)

Spring 2013

Probabilistic Modeling of Interactions on UC Berkeley Campus
Prof. David Aldous: Undergraduate Research Group
- Designed an independent research topic to predict and visualize common routes of UC Berkeley undergraduates with different majors and their interactions on campus
- Collected survey data from 130+ undergraduates across 5 different majors on MySQL database

Spring 2013

Prediction of Kobe Bryant's Performance in His Next Game (In-class Project)
- Scraped Kobe's seasonal data from *basketball-reference.com* and selected relevant predictors
- Applied regression analysis and feature shrinkage methods to create statistical models for prediction using R