Melanie Kwon, MSCS

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LANGUAGES

ADVANCED
Python, Javascript, Java

INTERMEDIATE
SQL, VBA, CSS

BASIC
C++, R, Haskell

SKILLS

SOFTWARE DEVELOPMENT
Linux/Git, AWS, Agile project management

DATABASE EXPERIENCE
SQL Server, MySQL, PostgreSQL

DATA MUNGING
Excel, Numpy, Pandas, Beautiful Soup

MACHINE LEARNING
Scikit-Learn: Clustering, Classification, Regression, SVM, Decision Trees, Ensemble Learning/Random Forests, Dimensionality Reduction, ANNs

VISUALIZATION
Matplotlib, D3, Tableau

EDUCATION

M.S., Computer Science, California State University Los Angeles, 2018

B.A., Political Science, University of California Los Angeles, 2010

Deep Learning Specialization from deeplearning.ai on Coursera. Certificates completed Aug-Sept, 2017

- Neural Networks and Deep Learning

- Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization

- Structuring Machine Learning Projects

EXPERIENCE

KAISER PERMANENTE – DEPARTMENT OF RESEARCH AND EVALUATION — Los Angeles, CA
Analyst / Programmer — 2015 - present
Automate reports and build decision support applications in VBA/Excel/Access/SQLServer (Space Management Planning Tool, Grant Projection Tool). Experience coding stored procedures and views in MS SQL Server.

MERCURY INSURANCE GROUP — Brea, CA
Business Systems Analyst — 2015
Lead project teams to capture business requirements and translate them to complete functional requirements for developers. Facilitate meetings to assess scope, gather estimates, and determine dependencies to coordinate integration.

WOMEN IN COMPUTING — Long Beach, CA
Front-End Web Developer — 2013 - 2014

FEATURED PROJECTS

SpotiFynder
Single-Page Application written in Node.js and Angular.js that searches artists/songs/genres from Spotify API.

AbsolutMixr
Android app to bookmark recipes from AbsolutDrinks Database API and use phone camera to scan items to inventory. Wireframing, UI design, & Twitter API social media integration.

Applied Deep Learning for Diagnosing Cervical Cytology
(Thesis project advised by M. Pourhomayoun, Ph.D.)

Research project manager for collaborative study with pathologists of LAC+USC/Keck Hospital to compare the diagnostic accuracy of convolutional neural networks to human-level expertise of licensed pathologists.

Predicting Heart Disease
Web scraping/cleaning from UCI ML repo using Beautiful Soup and regular expressions. PCA to reduce dimensionality of data and train non-linear SVM for heart disease prediction.

Breast Cancer Prediction
Use Breast Cancer Wisconsin Data Set (UCI ML repo) to train Decision Tree, AdaBoost and Random Forest models.

Customer Segmentation
Built K-Means cluster analysis tool in MS Excel.

Coder News Dashboard
Fetch data from Github API to create interactive bar chart visualization (Pygal) of most-starred repositories by language. Also calls Hacker News' API to create a curated reading list of current top articles with bar charts showing most active discussions.