MAXWELL A. PICKARD

maxapickard@gmail.com • https://mpickles.github.io/ • (360) 631-8853

Aspiring data scientist with a deep understanding of business analytics and an eye for technical detail. Currently pursuing a B.S. in Applied Mathematics and a minor in Economics from the University of California San Diego.

TECHNICAL SKILLS

Proficient: Python, R, R Studio, Jupyter Notebook, Pandas, PowerPoint,
Familiar: Excel, Google Sheets, Tableau, SQL, MySQL, PopSQL, SQLite MATLAB, HTML, CSS, JavaScript,

EDUCATION

University of California San Diego   March 2023
B.S. – Applied Mathematics, Minor in Economics   GPA – 3.34/4.00
Relevant Coursework: Computational Statistics, Data Analysis and Inference, Numerical Optimization Methods for Data Science, Linear and Non-Linear Optimization, Microeconomics, Econometrics, Business Analytics, Customer Analytics, Marketing

PROJECTS

NFL Fantasy Football Data Dashboard (Excel, Tableau) | Project Link   January 2023
- Retrieved data from Pro-Football Focus and FantasyPros on the top three hundred fantasy football relevant players of the 2022 NFL regular season to combine and clean in Excel to streamline the process of creating visualizations and performing advanced analysis.
- Connected csv file to Tableau to create interactive dashboard that allows users to compare players performance and efficiency from the 2022 seasons, highlighting players who high points per game and a low variation.

MNIST Classifiers from Scratch (Python) | Project Link   November 2021
- Designed 3 different Randomized Feature Based Least Squares classifiers that were trained with various non-linear activation functions that classified the MNIST handwritten digit dataset by minimizing the cost function using Singular-Value Decomposition and compared their error rates, finding that the best classifiers with the least residual error rate were pairwise Boolean classifiers using either Sigmoid or ReLU activation functions
- Built a basic neural network using both a Tanh and Sigmoid activation function to approximate non-linear functions by using the Levenberg-Marquardt algorithm on 500 randomly generated training points to test the network on different initializations of the regularization parameter and the number of test points, comparing the residual error rates to find different optimal combinations.

PROFESSIONAL EXPERIENCE

North Counties Family Services, Darrington, WA   June 2015 – July 2018
Lead Counselor
- Collaborated with Head of Operations to create custom six-hour lesson plans and organized weekly field trips in collaboration with local organizations aimed to develop well-rounded campers with an emphasis on STEM-related skills, leading to increased enrollment
- Demonstrated communication skills to resolve concerns between different parties such as counselors, managers, and parents allowing for quick conflict resolutions and cohesion among team members

PROFESSIONAL DEVELOPMENT

Google Data Analytics Certificate (2021), Online Course - Coursera | Certificate Link
Gained general insights to practices and tasks of entry-level data analysts
- Practiced techniques and methods to transform and clean datasets in Google Sheets for analysis further down data pipeline
- Translated technical data analyses into palatable visuals and stories to a general audience with SQL, R, and Google Sheets

SQL for Data Science by UC Davis Extension (2023), Online Course - Coursera
SQL fundamentals in a data science context
- Learned about the different SQL commands used to retrieve, manipulate, and combine data for further analysis
- Profiled and performed basic analysis of Yelp data to practice using SQL commands in data analysis