

# DAVID WEON

## DATA SCIENTIST

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in davidweon

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## Skills

### MACHINE LEARNING

Regression Modeling

Supervised Learning/Classification

Unsupervised Learning/Clustering

Natural Language Processing

Neural Networks

Deep Learning

### PROGRAMMING

Python

SQL

NoSQL

### LIBRARIES

Pandas

Numpy

Statsmodel

Scikit-learn

BeautifulSoup

Selenium

NLTK

Gensim

TensorFlow

Keras

### VISUALIZATION & DEPLOYMENT

Matplotlib

Seaborn

Tableau

HTML

Flask

Streamlit

### DATA MANAGEMENT

AWS

Git

PostgreSQL

## Education

### Columbia University

MS Bioethics 2019

GPA: 4.0/4.0

Contributor to Voices in Bioethics

### Northwestern University

BS Communication Sciences 2014

Intramural soccer (2013 Champions)

## Projects

### Interpreting Speech Emotion for the Hearing-Impaired

- Trained a convolutional neural network to classify speech emotion and speaker gender using 1400+ audio files.
- Deployed an app using Streamlit that processes input audio and returns speech emotion and speaker gender.
- [Deployed App](#) | [Blog Post](#) | [GitHub Repo](#)

### Creating a Chopped Mystery Basket Generator and Ingredient Recommender

- Developed a recommendation engine that utilizes word embedding and clustering to define relationships between 1500+ unique ingredients.
- Created an app that generates a mystery basket of four random ingredients based on user inputs.
- [Deployed App](#) | [Blog Post](#) | [GitHub Repo](#)

### Classifying Benign/Malignant Tumors for Breast Cancer

- Built a classification model using logistic regression that identifies a benign or malignant tumor based on cell characteristics of 600+ samples.
- Packaged the model into a Flask web application to enable tumor classification utilizing user inputs.
- [Deployed App](#) | [Blog Post](#) | [GitHub Repo](#)

### Predicting Premier League Players' Salaries with Machine Learning

- Scraped the statistics and salaries for 500+ soccer players using Selenium and BeautifulSoup.
- Predicted a player's salary using linear regression models (L1 & L2 regularization, cross-validation) on quantitative player statistics.
- [Blog Post](#) | [GitHub Repo](#)

## Experience

### Metis

Data Scientist

New York, NY

June 2020 to Current

- Completing a 12-week immersive data science bootcamp with a focus on Python programming, data engineering, machine learning, and communication.
- Designed and built end-to-end projects using statistical models and machine learning algorithms.

### Komodo Health

Senior Associate, Customer Success

New York, NY

Oct. 2019 to Apr. 2020

- Managed key accounts across the top biopharmaceutical customers and created data-driven deliverables in collaboration with medical affairs, clinical operations, and commercial teams.
- Launched pilot programs with customers to ensure successful deployment, adoption, and utilization of Komodo's products and services.
- Collaborated in a cross-functional team designated to enhance product development and deployment through customer feedback.

### Gerson Lehrman Group

Senior Associate, Life Sciences and Healthcare

New York, NY

Apr. 2018 to Oct. 2019

- Scoped go-to-market strategies and built analytical models for the market share of pharmaceutical and biotechnology clients.
- Led a cross-functional team of 10 to provide insights to key stakeholders regarding strategic growth initiatives and opportunities within the market.
- Secured multiple \$150K projects with a new client, leading to a \$1M contract shortly after the projects.

### Columbia University Irving Medical Center

Research Coordinator

New York, NY

Nov. 2015 to Apr. 2018

- Created the TAVR central database, leading data analysis on over 1500 patient data points to determine effectiveness of patient treatment and trends in patient outcome.
- Conducted clinical studies while leading qualitative and quantitative data synthesis for research analysis.