Contact

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Top Skills

Python (Programming Language)
TensorFlow
Deep Learning

Drue Staples

Lead AI Machine Learning Engineer at PROLIFIC AI
Lowell, Indiana, United States

Summary

Specific Skills:

Python, Pandas, Scikit-Learn, Matplotlib, Numpy, Tensorflow, OpenCV, Keras, Seaborn, Statistics, Probability, Differential Calculus, Linear Algebra, SQL, Machine Learning Algorithms, Feature Engineering, Feature Selection, Google Cloud Platform, NLP, Jupyter, Excel, Powerpoint, Word, MATLAB, Speech Recognition, Sentiment Analysis, Time Series data, Agile Methodology, HTML, CSS, JavaScript, PHP

Certification:

Stanford's Machine Learning Certification with Andrew Ng
Course includes machine learning, datamining, and statistical pattern recognition. Topics include: (i) Supervised learning (parametric/non-parametric algorithms, support vector machines, kernels, neural networks). (ii) Unsupervised learning (clustering, dimensionality reduction, recommender systems, deep learning). (iii) Best practices in machine learning (bias/variance theory; innovation process in machine learning and AI).

Experience

PROLIFIC AI

Lead AI Machine Learning Engineer
July 2023 - Present (1 year)

Building and leading a team of scientists and engineers to design, develop, and deploy the Minimum Viable Product. PROLIFIC is an AI-based rideshare company that is focused on enhancing travel of sporting events with the use of machine learning. This entails a mobile app that allows users to view upcoming games with a confidence score of how much fulfillment

they are expected to receive. This also includes a list of mobile games and features which will be trained by a set of models to ensure user satisfaction/ engagement. Once a user books a ride to an event, they can connect their app to the PROLIFIC vehicle's touchscreens to access their app with even more capabilities. This includes sports statistics, highlights,and games that will include its own recommendation system. Current tools I'm using for this project are Google Cloud Platform, Python, TensorFlow, SQL, Kubeflow, GIT/GitHub, Docker, Kubernetes, Seldon Core, HTML, CSS, JavaScript, and React Native

AIM Consulting Group
Data Scientist/ AI ML Engineer
October 2022 - August 2023 (11 months)

Design, build, and analyze production ready ML models on the Search Team for Best Buy.

ODEM.IO
Machine Learning Engineer
April 2022 - November 2022 (8 months)

Create and integrate ML for the Startup ODEM Platform which will enable users to find more accurate job matches, desired education/career pathways, and earn college credits with real world experience.

Plainsight
Machine Learning Engineer
January 2022 - April 2022 (4 months)

Engineering Machine Learning Solutions with Computer Vision and the Sense AI Platform

Projects include a wok weight regressor for Panda Express and cow counter for a farm

Applied Research Solutions
Artificial Intelligence Machine Learning Developer
April 2020 - January 2022 (1 year 10 months)

Machine Learning Scientist for the US Air Force Research Laboratory.

Worked on three projects and wrote 2 papers, 1 of which was published.

Projects include topics around:

-Topological Data Analysis

-Reinforcement Learning

-Analogical Reasoning

Vision13
Artificial Intelligence Software Engineer
September 2019 - April 2020 (8 months)

Conceptualize, design,build and modify Artificial Intelligence Software, and practice business development principles for an AI automated stock trading application. Tasks include building the model, data extraction via realtime mediums, data preprocessing, speech recognition and sentiment analysis.

Freelancer
Data Analyst/ Machine Learning Engineer
September 2017 - September 2019 (2 years 1 month)
Northwest Indiana

-Python Programming

My open-source projects (can be viewed on Github) include Python and I also have a Python Tutorial Series on YouTube where I teach the fundamentals of the Python Language. A part of that, I also actively engage in online Python, Data Science, Machine Learning, and Deep Learning social communities.

-Data Analysis

Ability to create insight and easy visualization. One project of mine displays the countries that have the highest population growth from the past 55 years. Another project showcases top characters in a 23 year-old game. The code for these programs can be seen on my Github as well as YouTube.

-Machine Learning | Deep Learning

Comprehensive with various ML libraries and Frameworks. Some projects can be listed as follows:
Breast Cancer Detector - Detects whether tumors are malignant or benign
Temperature Transformer - Converts Celsius to Fahrenheit
Farm Project - Find similarities between farm crops
Clothing Project - Detect different types of clothing
MPG Project - Predict the miles per gallon of discrete vehicles

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Education

Valparaiso University
Electrical and Electronics Engineering

Stanford University
Coursera’s Machine Learning Program, ML · (2019 - 2019)